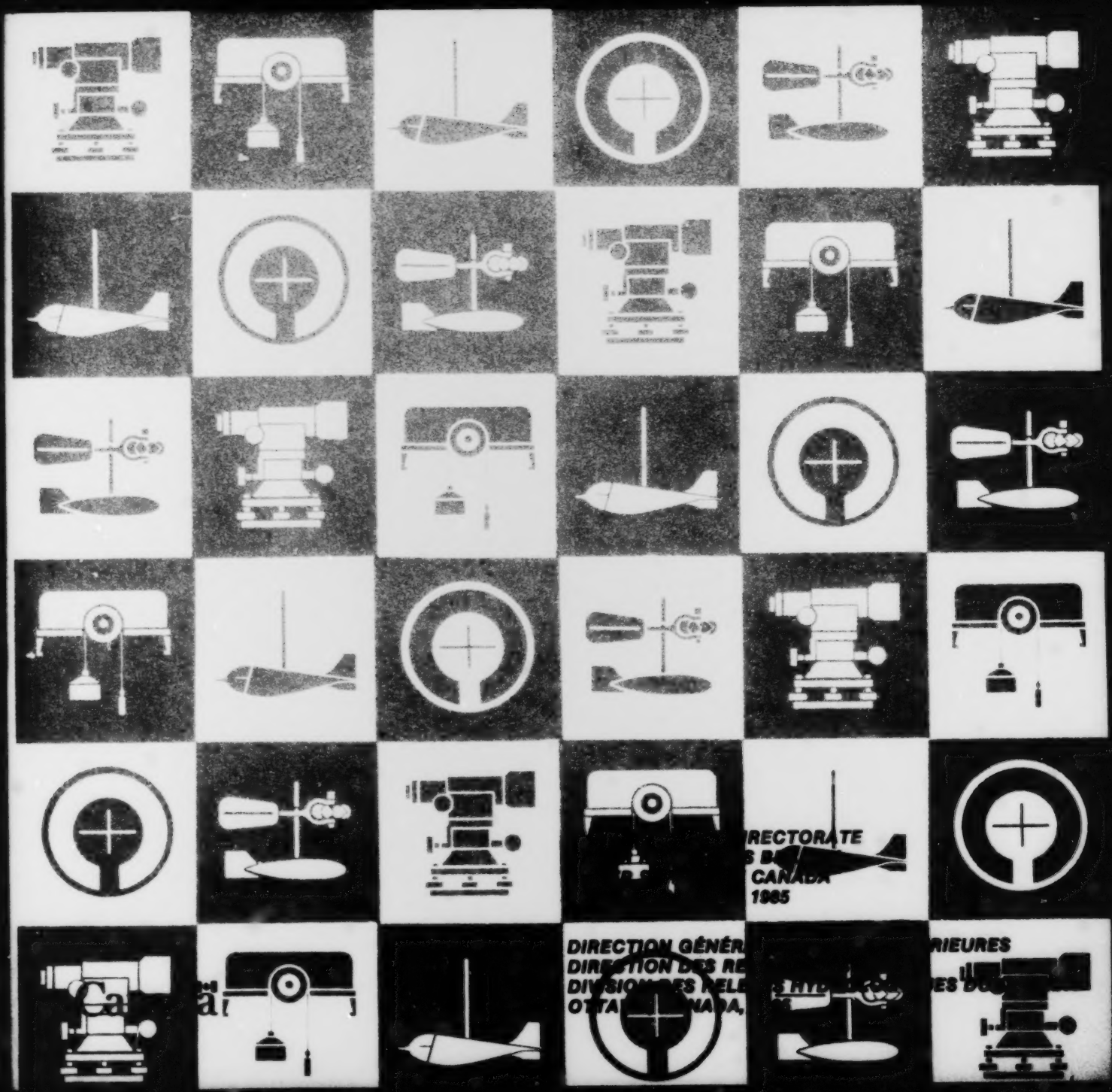
Histofical Streamflow Summary

Manitoba

Sommaire chronologique de l'ecoulement

TO/JUSQU'À **1984**



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La Commission du système métrique Canada a autorisé l'utilisation du symbole national de conversion au système métrique. Le Service du contrôle métrique de l'Office des normes générales du Canada a revisé l'utilisation du système métrique dans cette publication.

Environment Canada | Environnement Canada

Historical Streamflow Summary

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TO/JUSQU'À **1984**

INLAND WATERS DIRECTORATE
WATER RESOURCES BRANCH
WATER SURVEY OF CANADA
OTTAWA, CANADA, 1985

DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES
DIRECTION DES RESSOURCES EN EAU
DIVISION DES RELEVÉS HYDROLOGIQUES DU CANADA
OTTAWA, CANADA, 1985

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PREFACE

This publication was prepared by personnel of the Water Survey of Canada Division under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Winnipeg, Manitoba.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

La Division des relevés hydrologiques du Canada, sous l'autorité du Directeur des ressources en eau du ministère de l'Environnement (Ottawa), a préparé la présente publication.

On a recueilli et compilé les données de base sous la supervision du Chef régional de la Direction des ressources en eau, à Winnipeg (Manitoba).

On remercie vivement les organismes provinciaux, ou autres, pour la coopération qu'ils ont apportée.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents a summary of monthly and annual mean discharges and annual extremes of discharge for rivers in Manitoba for which streamflow data to 1984 inclusive have been collected by the Water Survey of Canada. This edition supersedes all previous editions.

A program for the collection and publication of Surface Water Data has been carried on across Canada for over 75 years. The results of these hydrometric survey investigations have been published annually.

Discharge data are available on punched cards or magnetic tape for computer processing. These data and details on individual stations and related records, as well as recent data which have not yet been published may be obtained upon application to:

Regional Chief,
Water Resources Branch,
Department of the Environment,
521 Federal Building,
269 Main Street,
Winnipeg, Manitoba.
R3C 1B2

or to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0E7.

INTRODUCTION

La Direction des ressources en eau du ministère de l'Environnement présente un sommaire des moyennes mensuelles et annuelles de l'écoulement et des extrêmes annuels de cours d'eau du Manitoba, pour lesquels la Division des relevés hydrologiques du Canada a obtenu des données jusqu'en 1984 inclusivement. La présente publication annule toutes les éditions antérieures.

La cueillette et la publication de données sur les eaux de surface sont en oeuvre depuis plus de 75 années au Canada. Les données obtenues à partir des relevés hydrométriques sont publiées annuellement.

On peut se procurer les données sur l'écoulement sous forme de cartes perforées ou de rubans magnétiques pour traitement sur ordinateur. En s'adressant aux endroits ci-après, on peut obtenir ces données, des renseignements supplémentaires sur certaines stations particulières et divers relevés ainsi que des données récentes non encore publiées:

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
521 Édifice fédéral
269, rue Main
Winnipeg (Manitoba)
R3C 1B2

ou au Directeur, Direction des ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0E7.

ORGANIZATION AND HISTORY OF HYDROMETRIC SURVEY OPERATIONS

Hydrometric surveys in Manitoba were conducted by the Water Survey of Canada under agreement with the Province of Manitoba. The provincial authorities contributed to the cost of the basic field investigations which were carried out in accordance with mutually agreed-upon plans.

Stream-gauging work started in Manitoba when the Winnipeg River Power Survey was commenced in 1911 by the Dominion Water Power Branch. The Manitoba Hydrographic Survey was organized in early 1912 and the survey was expanded to embrace all Manitoba and the Lake of the Woods in Ontario. Following the transfer of the natural resources of Manitoba to provincial control as of October 1, 1930, a co-operative agreement was arranged with the Government of Manitoba for the continuance of the hydrometric survey by the federal government. Although this agreement was terminated in 1933, work was continued by the federal government under letter arrangement until 1975. A co-operative agreement was signed with the Government of Manitoba on February 18, 1975 and implemented on April 1, 1975. The agreement provides that water quantity surveys will be continued by the federal government on a shared cost basis.

ORGANISATION ET HISTORIQUE DES RELEVÉS HYDROMÉTRIQUES

La Division des relevés hydrologiques du Canada a effectué des relevés hydrométriques au Manitoba en vertu de l'accord conclu avec les autorités provinciales, qui ont contribué au coût des recherches de base réalisées sur le terrain, après entente mutuelle sur leur programme.

C'est en 1911, lorsque la Direction fédérale de l'énergie hydraulique a fondé le *Winnipeg River Power Survey*, que cet organisme a effectué les premières observations relatives aux cours d'eau au Manitoba. Avec la création du *Manitoba Hydrographic Survey* au début de 1912, le champ des relevés s'est élargi pour englober tout le Manitoba et le lac des Bois en Ontario. Après que la responsabilité des ressources naturelles du Manitoba est passée au gouvernement provincial, le 1er octobre 1930, le Manitoba et le gouvernement fédéral ont conclu un accord qui permettait à ce dernier de poursuivre les relevés hydrométriques. L'accord a pris fin en 1933, mais en vertu d'une lettre d'entente, le gouvernement fédéral a continué d'exécuter les observations hydrométriques jusqu'en 1975. Le 18 février 1975, le gouvernement du Manitoba a signé un nouvel accord, qui est entré en vigueur le 1er avril 1975, renfermant des dispositions grâce auxquelles le gouvernement fédéral s'occupera du programme de relevés hydrométriques et partagera le coût des mesures avec la province.

CO–OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Runoff and other data have been mutually exchanged and stream-gauging operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain gauging stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining hydrometric survey records, the Water Survey of Canada is indebted to many organizations.

The names of these organizations are given in the Surface Water Data Reference Index and the annual Surface Water Data publications. The names of agencies who have contributed data for publication are identified herein under individual stations.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données portant sur l'écoulement ou sur d'autres points, et l'assistance fournie par beaucoup d'organismes a facilité les opérations de jaugeage.

Pour ce qui est des eaux adjacentes à la frontière internationale, certaines stations de jaugeage dépendent du Canada (ou des États-Unis) suite à un accord avec les États-Unis (ou le Canada), et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage».

La Division des relevés hydrologiques du Canada est redevable à maints organismes de l'aide et de la collaboration précieuses qu'ils lui ont apportées lors de la prise des relevés hydrométriques.

On trouvera les noms des organismes dans l'*Index de référence des données sur les eaux de surface* et dans les publications annuelles des *Données sur les eaux de surface*. Les noms des organismes qui ont fourni des données apparaissent dans la présente publication sous les stations particulières.

EQUIVALENTS OF MEASURE

The following list of convenient equivalents of measure includes the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet
1 dam^3 (cubic decametre) equals 1000 m^3 (cubic metres)
1 dam^3 (cubic decametre) equals 1 mm (millimetre) over 1 km^2 (square kilometre)

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)
1 m^3/s (cubic metre per second) for one day equals 86.4 dam^3 (cubic decametre)
1 m^3/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit - 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

ÉQUIVALENCES DES UNITÉS DE MESURE

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2,54 cm (centimètres)
1 pied vaut 0,3048 m (mètre)
1 mille terrestre équivaut à 1,6093 km (kilomètre)

1 cm (centimètre) équivaut à 0,393 70 pouce
1 m (mètre) équivaut à 3,2808 pieds
1 km (kilomètre) équivaut à 0,621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre équivaut à 0,404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré équivaut à 2,5900 km^3 (kilomètres carrés)
1 mille carré équivaut à 259,0 ha (hectare)

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) équivaut à 2,4710 acres
1 km^2 (kilomètre carré) équivaut à 0,386 10 mille carré

1 pied cube équivaut à 6,2288 gallons impérials
1 gallon impérial vaut 4,546 09 L (litres)
1 gallon impérial équivaut à 1,2010 gallon américain
1 gallon américain équivaut à 0,133 68 pied cube
1 pied cube vaut 0,028 317 m^3 (mètre cube)
1 m^3 (mètre cube) vaut 35,315 pieds cubes
1 dam^3 (décamètre cube) vaut 1000 m^3 (mètres cubes)
1 dam^3 (décamètre cube) vaut 1 mm (millimètre) qui couvre 1 km^2 (kilomètre carré)

1 pied cube par seconde pendant un jour équivaut à 1,9835 acre-pied
1 pied cube par seconde pendant un jour équivaut à un volume d'un mille carré par 0,037 19 pouce
1 acre-pied équivaut à 1,2335 dam^3 (décamètres cubes)
1 m^3/s (mètre cube par seconde) pour un jour vaut 86,4 dam^3 (décamètre cube)
1 m^3/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0,0864 m (mètre)

1 pied par seconde équivaut à 0,6818 mille par heure
1 mille par heure équivaut à 1,467 pied par seconde
1 m/s (mètre par seconde) vaut 3,6 km/h (kilomètre par heure)
1 km/h (kilomètre par heure) vaut 0,2778 m/s (mètre par seconde)

1 pied cube par seconde équivaut à 0,028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) équivaut à 35,315 pieds cubes par seconde

1 livre équivaut à 0,453 59 kg (kilogramme)
1 kg (kilogramme) équivaut à 2,2046 livres

1 tonne courte (2000 livres) équivaut à 0,907 18 t (tonne)
1 t (tonne) équivaut à 2204,6 livres

degrés Celsius = 5/9 (degrés Fahrenheit - 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

DEFINITION OF TERMS AND ABBREVIATIONS

"Control" is the condition downstream from a gauging station that determines the stage-discharge relationship. It may be a stretch of rapids, a weir or other artificial structure. In the absence of such features, the control may be a less obvious condition such as a convergence of the channel or even simply the resistance to flow through a downstream reach. A shifting control exists where the stage-discharge relationship tends to change because of impermanent bed or banks.

"Cubic metres per second" (m^3/s) is a unit expressing rate of discharge. One cubic metre per second is equal to one cubic metre of water flowing past a particular point in one second. This is the basic unit in general use, other units being computed from it by the use of factors as given in the previous paragraph under "Equivalents of Measure".

"Gauging station" is a location where systematic records of stage or stage and discharge are obtained.

"Miscellaneous (or related) data" is all data not published in the regular series of hydrometric and sediment data publications such as unpublished water levels and the various parameters that are measured in obtaining discharge measurements, e.g. water depth, velocity, width, air and water temperatures, ice thickness. This also includes discharge measurements and water level and sediment observations obtained at locations which are not regular gauging stations. Various types of "derived" data could also be considered "miscellaneous", such as water levels and discharges at selected time intervals (usually hourly).

"Stage-discharge relationship" is the relation between the water level and the discharge at a gauging station.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

Surface Water Data have been published in a variety of formats in imperial units since 1908 in approximately 300 publications which are now mostly out-of-print. Commencing with the 1979 publications, data are presented in the International System of Units (SI). However, the format has remained the same wherein Canada is divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province(s) or territories covered and the year in which data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically, with two years of data per page.

The first edition of a *Surface Water Data Reference Index* was published for data to 1966 by province or region. Subsequent editions were published annually or biennially in one publication for Canada. Commencing with the 1979 publication, data are

DÉFINITIONS DES TERMES ET ABRÉVIATIONS

«Élément régulateur» – élément qui conditionne l'écoulement en aval d'une station de jaugeage et qui détermine la relation hauteur-débit au niveau de la station. Ce peut être une série de rapides, un déversoir ou toute autre structure artificielle. En l'absence de ces structures, l'élément régulateur peut provenir d'une condition moins apparente comme le rétrécissement d'un chenal ou simplement la résistance à l'écoulement d'un tronçon situé en aval. Il y a élément régulateur changeant quand la relation hauteur-débit tend à être modifiée par un lit ou des rives instables.

«Mètres cubes par seconde» (m^3/s) – unité du taux d'écoulement. Un mètre cube par seconde équivaut à un mètre cube d'eau s'écoulant en un point donné en une seconde. C'est l'unité de base généralement employée, les autres unités dérivées à partir de celle-ci sont données sous la rubrique «Équivalences des unités de mesure».

«Station de jaugeage» – lieu où l'on effectue des relevés systématiques de la hauteur ou de la hauteur et du débit de l'eau.

«Les données diverses (ou connexes)» – représentent toutes les données qui ne sont pas publiées dans les séries régulières des publications sur les données hydrométriques et les sédiments, par exemple celles des niveaux des eaux et des autres paramètres qui sont mesurés en même temps que le débit, soit la profondeur de l'eau, sa vitesse, son étendue, la température de l'eau et de l'air, l'épaisseur de la glace. Les mesures de débit ainsi que les observations sur les niveaux des eaux et les sédiments, obtenues à des emplacements autres que les stations régulières de jaugeage, sont aussi incluses. D'autres types de données «dérivées» pourraient aussi être classées dans cette catégorie de données «diverses», à savoir les niveaux des eaux et les débits observés à des intervalles de temps précis (en général, toutes les heures).

«Relation hauteur-débit» – relation qui existe entre la hauteur et le débit au niveau d'une station de jaugeage.

PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

Depuis 1908, les *Données sur les eaux de surface* ont été publiées, en utilisant diverses formules et en ayant recours au système d'unités impériales, dans quelque 300 publications lesquelles sont pour la plupart épuisées. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Toutefois, la présentation est toujours la même, c'est-à-dire que le Canada est divisé en huit régions. Chaque province représente une région distincte sauf le Nouveau-Brunswick, la Terre-Neuve, la Nouvelle-Écosse et l'Île du Prince-Édouard qui constituent la région des provinces de l'Atlantique, comme c'est le cas aussi pour le Yukon et les Territoires du Nord-Ouest qui sont réunis en une seule région. Les publications sont identifiées par le nom des provinces ou territoires concernés et par l'année de la cueillette des données. Les données sont publiées annuellement, en fonction de l'année civile, et les stations sont classées par ordre alphabétique, chaque page de données couvrant deux années.

La première édition de l'*Index de référence des données sur les eaux de surface* comprenait les données disponibles jusqu'en 1966, de chaque province ou région. Les éditions subséquentes étaient publiées annuellement ou tous les deux ans en une seule publication

presented in the International System of Units (SI) and published every two years. Gauging stations are listed by province or territory, in upstream to downstream order. Coloured maps showing the locations of both active and discontinued stations were included in the first and second editions and were provided in a separate Hydrometric Map Supplement to the 1972 and the 1977 editions. The latest editions of the Reference Index and the Hydrometric Map Supplement supersede all previous editions.

pour tout le Canada. À partir de 1979, les données sont fournies dans le Système international d'unités (SI) et les éditions subséquentes vont paraître tous les deux ans. Les stations de jaugeage sont présentées par province ou territoire et placées dans l'ordre de leur position, d'amont en aval. Des cartes en couleurs, qui indiquent l'emplacement des stations hydrométriques en service, y compris celles qui ne le sont plus, ont paru dans les première et deuxième éditions ainsi que dans le *Supplément de cartes hydrométriques* de 1972 et de 1977. L'édition la plus récente de l'*Index de référence* et celle du *Supplément de cartes hydrométriques* annulent les éditions antérieures.

The first edition of a publication series titled *Historical Streamflow Summary* was produced for data to 1970. Subsequent editions have been published every three years. This publication series contains a summary of historical monthly and annual mean discharges and annual extremes for the entire period of record for all stations where streamflow data have been collected during the history of the Water Survey of Canada. Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). Editions subsequent to 1982 will be published every two years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

La première édition d'une série de publications intitulée *Sommaire chronologique de l'écoulement* renfermait les données disponibles jusqu'en 1970. Les éditions subséquentes étaient publiées tous les trois ans. Cette série de publications renferme un résumé des moyennes mensuelles et annuelles des débits ainsi que les débits extrêmes annuels pour toute la période d'enregistrement et pour toutes les stations où des données de débit sont recueillies par la Division des relevés hydrologiques du Canada. Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes à 1982 vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

The first edition of a publication series titled *Historical Water Levels Summary* was produced for data to 1976. This publication series contains a summary of historical monthly and annual mean water levels and annual extremes for the period of record for all stations on lakes or reservoirs where water level data have been collected during the history of the Water Survey of Canada. It also contains a summary of water level data for all stations on rivers where "water levels only" were collected or for certain stations on rivers where streamflow data are collected, but the historical water level information is considered to be of sufficient demand to warrant inclusion in the publication (daily water levels for stations where streamflow data are collected are not normally published in the annual Surface Water Data publications). Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). Editions subsequent to 1983 will be published every two years. The latest edition supersedes all previous editions, since it contains any corrections or additions since the last publication.

La première édition d'une série de publications intitulée *Sommaire chronologique des niveaux d'eau* comprenait les données disponibles jusqu'en 1976. Cette série de publications contient un résumé des niveaux moyens mensuels et annuels ainsi que des niveaux extrêmes annuels pour la période d'enregistrement pour toutes les stations de lacs ou de réservoirs où des données sur les niveaux d'eau sont recueillies par la Division des relevés hydrologiques du Canada. Elle renferme également un résumé des niveaux d'eau pour toutes les stations de rivières effectuant «uniquement» des relevés de niveaux d'eau ou pour certaines stations de rivières où des données de débit sont recueillies de même que des données sur les niveaux d'eau qui peuvent répondre aux besoins des utilisateurs (en général, les niveaux d'eau quotidiens de stations effectuant des relevés de débit ne sont pas publiées dans les publications annuelles des données sur les eaux de surface). Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes à 1983 vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Paper containing sediment data incorporates a selection of these data and also data for part of the year ending September 30, 1961, at stations established for the continuing program. The second issue is a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* were published annually. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI).

De 1948 à 1960, on avait recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenait un choix de ces données ainsi que d'autres, recueillies en 1961 avant le 30 septembre par des stations établies pour la réalisation du programme permanent. La deuxième publication portait sur les données recueillies dans le cadre du programme, au cours des années hydrologiques 1962 et 1963. Toutes les éditions subséquentes intitulées *Données sur les sédiments de rivières canadiennes* étaient publiées annuellement. À partir de 1978, les données sont fournies dans le Système international d'unités (SI).

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations where sediment data in Canada were collected by the Water Survey

La première édition de l'*Index de référence des données sur les sédiments* renfermait les données disponibles jusqu'en 1972. Elle comprenait une mise en tableaux des emplacements où des données

of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published every two years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). The latest edition supersedes all previous editions, since it contains any corrections or additions since the last publication.

sur les sédiments sont recueillies au Canada par la Division des relevés hydrologiques. L'Index est subdivisé alphabétiquement par province ou territoire et les stations de relevés des sédiments sont classées en ordre alphabétique. À partir de 1978, les données sont fournies dans le Système international d'unités (SI) et sont publiées tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

La première édition d'une nouvelle série de publications intitulée *Sommaire chronologique des données sur les sédiments de rivières canadiennes* renfermait les données disponibles jusqu'en 1974. Cette série présente un résumé des moyennes mensuelles et annuelles de la charge de sédiments en suspension, des extrêmes annuels de la concentration quotidienne et de la charge quotidienne des sédiments en suspension, ainsi que de la charge totale annuelle des sédiments en suspension. À partir de 1978, les données sont fournies dans le Système international d'unités (SI). L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

EXPLANATION OF HISTORICAL STREAMFLOW SUMMARY PUBLICATION

A. General Description

Descriptive information about a gauging station is given herein below the table of monthly and annual mean discharges. This refers to such items as latitude and longitude, drainage area and whether the flow is natural or regulated (the year that regulation began is given, if known); International Gauging Stations are identified and the names of co-operating agencies who supply data are given; unusual conditions are explained under "Remarks".

This descriptive information (except the "Remarks" statement) is also given in the Surface Water Data Reference Index and the annual Surface Water Data publications. However, these two publications contain additional information not given herein such as the type of gauge, period of record and other pertinent remarks. Historical streamflow data as contained herein are published by province or region and also in alphabetical order as in the annual Surface Water Data publications. However, the Historical Streamflow Summary publications contain data for both active and discontinued streamflow stations and do not contain any water level data. These publications will be published every two years and will contain data for all streamflow stations for the entire period of record not just the data for the intervening two years.

B. Method of Tabulation of Data

For gauging stations where systematic streamflow data have been obtained, the following are given for the period of record to 1984 inclusive:

1. Summary of monthly and annual mean discharges;
2. Annual maximum instantaneous discharges;

EXPLICATION DU *SOMMAIRE CHRONOLOGIQUE DE L'ÉCOULEMENT*

A. Description générale

Sous ce titre on trouve les renseignements descriptifs pour une station de relevés de l'écoulement, qui sont fournis après l'extrait des moyennes mensuelles et annuelles. Il s'agit de la latitude et de la longitude; de la superficie du bassin versant; du débit reconnu comme naturel ou régularisé (on indique l'année où la régularisation a débuté, si elle est connue); des stations internationales de jaugeage et des noms des organismes ayant fourni des données ainsi que des précisions sur les conditions spéciales qui prévalaient à la station (elles figurent dans les «Remarques»).

On trouvera également ces renseignements descriptifs (sauf les «Remarques») dans l'*Index de référence des données sur les eaux de surface* et dans les publications annuelles des *Données sur les eaux de surface*. Cependant, ces dernières traitent d'information additionnelles telles que du type de jauge, de la période d'enregistrement et d'autres remarques pertinentes. Les données historiques sur l'écoulement, qui sont contenues dans la présente publication, sont subdivisées en ordre alphabétique selon les provinces ou les territoires comme pour les publications annuelles des *Données sur les eaux de surface*. Par contre, le *Sommaire chronologique de l'écoulement* contient des données non seulement de stations en opération, mais aussi de stations qui ne le sont plus; aucune donnée sur le niveau des eaux n'est toutefois fournie. Cette publication paraîtra tous les deux ans et portera sur les données de toutes les stations de relevés de l'écoulement pour toute la période d'enregistrement plutôt que sur les données qui ne couvrent que les deux années.

B. Présentation sous forme de tableaux des données

Pour les stations où on a effectué un relevé systématique de l'écoulement, les données suivantes sont présentées pour la période d'enregistrement allant jusqu'en 1984 inclusivement:

1. Un extrait des moyennes mensuelles et annuelles;
2. Un tableau des valeurs annuelles maximales instantanées;

3. Annual maximum and minimum daily discharges;

4. Identification of the extreme recorded for the period of record;

5. Annual total discharge in cubic decametres.

The following standard symbols are used opposite the daily discharge to which they apply. These symbols will not appear opposite the monthly and annual mean discharges, but will appear with the annual maximum instantaneous value and the annual maximum and minimum daily values, if applicable:

A – Manual Gauge – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge during that particular year. A station may have several periods of recording or manual gauges throughout its history. For more details concerning the type of gauge operated during the period of record, the *Surface Water Data Reference Index* should be consulted. This symbol is used during open-water periods only.

B – Ice Conditions – indicates that for a gauging station where discharge data are obtained the presence of ice has affected the stage-discharge relationship.

E – Estimated – indicates any estimated data. It indicates that the value was determined by some indirect method such as interpolation, extrapolation, estimation from a graph of observed readings, comparison with other streams or by comparison with meteorological data.

R – Revised – indicates that a revision, correction or addition has been made to the historical discharge data base after January 1, 1980.

1. *The summary of monthly and annual mean discharge* gives:

(a) the monthly mean in cubic metres per second for each month for which there is a complete month of daily discharges. Records of daily discharges for partial months, if obtained, are published in annual publications or are available from the Regional Chief;

(b) the annual mean discharge in cubic metres per second if there are daily discharges for the complete year. In some cases a mean discharge is computed for a standard period within the year, say March to October. This is then computed for all the years for which there are daily discharge records from March to October, if there are also records for other months, say January to October, the mean is given for March to October only;

(c) the mean of all the monthly means;

(d) the mean of all the annual or standard period means.

3. Un tableau des valeurs quotidiennes maximale et minimale annuelles;

4. Un tableau des valeurs extrêmes enregistrées pour toute la période d'observation;

5. Un résumé de l'écoulement annuel total en décamètres cubes.

Les symboles normalisés donnés ci-après sont inscrits à côté des débits quotidiens auxquels ils se rapportent. Les symbols ne sont fournis ni avec les débits moyens mensuels, ni avec les débits moyens annuels, mais ils paraissent avec les valeurs appropriées, c'est-à-dire la valeur instantanée maximale annuelle et les valeurs quotidiennes maximale et minimale annuelles:

A – Jauge manuelle – indique qu'on a effectué à une station de jaugeage dotée d'une jauge enregistreuse au moins une observation par jour à l'aide d'une jauge manuelle et qu'on s'en est servi comme moyenne quotidienne pour l'année en question. Toute station peut comporter diverses périodes où les relevés sont effectués soit à partir d'une jauge enregistreuse, soit à l'aide d'une jauge manuelle. Pour obtenir d'autres renseignements sur le genre de jauge qui a servi lors de la période d'observation, il faut consulter l'*Index de référence des données sur les eaux de surface*. Le symbole n'est employé qu'au cours de périodes d'eau libre.

B – Glaces – indique, pour les données portant sur le débit, que la présence de glaces à la station de jaugeage a faussé la relation hauteur-débit.

E – Estimatives – indique une donnée estimative, c'est-à-dire qu'on a déterminé la valeur de façon indirecte, par exemple par interpolation, extrapolation, à l'aide de graphique, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

R – Révisé – indique qu'il y a eu révision, correction ou addition à la base des données chronologiques des débits après le 1er janvier 1980.

1. *L'extrait des moyennes mensuelles et annuelles* (The summary of monthly and annual mean discharges) donne:

(a) la moyenne mensuelle, exprimée en mètres cubes par seconde, des valeurs quotidienne de l'écoulement pour le mois entier. Pour les stations où on n'a mesuré l'écoulement quotidien que pour une partie du mois, les données paraissent dans les publications annuelles ou peuvent être obtenues du chef régional;

(b) la moyenne annuelle, en mètres cubes par seconde, pour les stations où on a obtenu des relevés quotidiens pour une année entière. Dans certains cas, la moyenne est calculée pour une période bien définie de l'année, par exemple pour mars à octobre. On donne donc la moyenne annuelle des relevés quotidiens effectués pour cette même période de l'année. S'il existe des données pour une autre partie de l'année, telle que pour janvier à octobre, la moyenne n'est toujours fournie que pour la période bien définie de mars à octobre;

(c) la moyenne de toutes les moyennes mensuelles;

(d) la moyenne de toutes les moyennes annuelles ou de toutes les moyennes pour une période bien définie.

2. *The annual maximum instantaneous discharge* in cubic metres per second is given for each year if available. This figure is usually available if the station is equipped with a recording gauge. It may also be estimated from high water marks or from a graph of observed water level readings during the day.

3. *The annual maximum and minimum daily discharges* in cubic metres per second are given for each year where daily discharges have been obtained for the entire year (or standard period within the year, e.g. March to October), or where they are considered to be valid for the year even though some daily discharges are missing.

4. *The extreme recorded for the period of record* is identified by an asterisk within the table of annual maximum instantaneous, maximum daily and minimum daily values.

5. *The annual total discharge* in cubic decametres is given for each year where daily discharges have been obtained for the entire year. If a standard period such as March to October has been selected, the figure applies to only those months, similar to the mean discharge in cubic metres per second.

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when daily discharges were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data presently underway, for example, these revisions may have been justified because a more reliable stage-discharge relationship had been developed.

Revisions to daily discharges or daily water levels are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. The Historical Water Levels Summary publications contain revisions to monthly and annual mean water levels, and annual extremes of water level. Revisions, corrections or additions made to the discharges and water levels after January 1, 1980 are indicated by an "R" symbol in the summary publications. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

2. *Le tableau des valeurs annuelles maximales instantanées* (The annual maximum instantaneous discharge) exprimées en mètres cubes par seconde, est fourni pour toute année où des données sont disponibles. La majorité des stations munies de jauges enregistreuses détiennent ces données. Elles peuvent également être évaluées à partir du niveau des hautes eaux ou d'un graphique illustrant le niveau quotidien.

3. *Le tableau des valeurs quotidiennes minimale et maximale annuelles* (The annual maximum and minimum daily discharges), exprimées en mètres cubes par seconde, donne les valeurs pour les stations où on a fait des relevés quotidiens pour une année entière ou pour une période bien définie de l'année, par exemple pour mars à octobre, ou lorsqu'on considère que les valeurs sont valables pour toute l'année même si quelques débits quotidiens ne sont pas disponibles.

4. *Le tableau des valeurs extrêmes enregistrées pour toute la période d'observation* (The extreme recorded for the period of record) est indiqué par un astérisque et est compris avec les valeurs annuelles maximales instantanées et les valeurs quotidiennes minimale et maximale annuelles.

5. *Le résumé de l'écoulement annuel total* (The annual total discharge), en décamètres cubes, est indiqué pour les stations où on a fait des relevés quotidiens pour une année entière. Si on a choisi une période bien définie de l'année, par exemple de mars à octobre, la valeur n'a trait qu'à ces mois, tout comme la moyenne mensuelle, en mètres cubes par seconde.

RÉVISIONS

On a corrigé ou révisé beaucoup de données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calculs lorsqu'on a enregistré les débits quotidiens sur rubans magnétiques et qu'on a recalculé à l'aide d'ordinateurs les moyennes mensuelles. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de données de base au cours de la révision rétrospective systématique des données de débit qu'on est à faire en ce moment. Ainsi, on peut justifier des corrections, par le fait qu'on ait trouvé une relation hauteur-débit plus sûre.

Les corrections apportées aux débits quotidiens ou aux niveaux d'eau quotidiens ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont identifiées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données sur les moyennes mensuelles et annuelles des débits et sur les extrêmes annuels des débits qu'on a révisées. Les publications intitulées *Sommaire chronologique des niveaux d'eau* renferment les révisions apportées aux niveaux moyens mensuels et annuels ainsi que les extrêmes annuels. Les révisions et corrections apportées aux débits et aux niveaux d'eau après le 1er janvier 1980 sont accompagnées du symbole «R» dans les publications sommaires. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

ACCURACY OF HYDROMETRIC DATA

The overall accuracy or the degree of reliability of hydrometric data referred to herein, depends upon

(1) The type of gauge, stability of gauge, accuracy of observation of stage and measurement of reference datum,

(2) The stability of the stage-discharge relationship; or if the control is unstable, the frequency and accuracy of discharge measurements, and

(3) The computation procedures and interpretation of records.

Because of all these variable factors, the number of significant figures used herein has been standardized for uniformity of presentation and does not reflect the degree of accuracy of the data. The Water Resources Branch standard for storing water level data is to three decimal points (0.001 m), although some contributing agencies provide data to two decimal points (0.01 m).

A measure of the reliability of the records can be made by an examination of the distribution of the symbols A, E and B (for discharge data).

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

MICROFICHE

All published daily discharge, water level and sediment data are available in metric units on microfiche, upon request. The data are stored in station number order by province. There are 270 frames per microfiche at 48X reduction; there is a visible heading showing the fiche number, type of data, province, beginning and ending station number and year of data, and the month/year the fiche was created. The last frame is an index of the contents of that fiche.

EXACTITUDE DES DONNÉES HYDROMÉTRIQUES

La précision totale ou le degré d'exactitude des données hydrométriques dont on parle ici sont basés sur

(1) Le type de jauge, la stabilité de la gauge, la précision des observations sur les niveaux et de la mesure de la donnée de référence,

(2) La stabilité de la relation hauteur-débit ou, si l'élément régulateur est changeant, sur la fréquence et la précision des mesures de débits, et

(3) L'évaluation des procédés et l'interprétation des chiffres.

À cause de toutes les variables déjà mentionnées, on a normalisé pour des fins d'uniformité de présentation le nombre de chiffres significatifs, mais ceci ne réflète pas le degré d'exactitude des données. Dans la Direction des ressources en eau, les normes de cueillette des données sur le niveau des eaux sont de l'ordre de trois décimales (0.001 m), alors que certains organismes dans ce domaine n'exigent que deux décimales (0.01 m).

L'exactitude des données peut être appréciée par l'examen de la répartition des symboles A, E et B (pour les données de débits).

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas de petits cours d'eau ou de cours d'eau à crues très rapides.

MICROFICHE

Toutes les données publiées concernant les débits quotidiens, les niveaux d'eau et les sédiments sont disponibles sur microfiche en unités métriques aux usagers qui en font la demande. Ces données sont emmagasinées par ordre de numéro de station et par province. Chaque microfiche renferme 270 pages réduites de 48X. L'en-tête indique le numéro de la fiche, le genre de données, la province, le numéro de la première et de la dernière station, celui de la première et de la dernière année de cueillette ainsi que le mois et l'année de préparation de la fiche. La dernière image donne l'index du contenu de la fiche.

STREAMFLOW DATA/DONNÉES SUR L'ÉCOULEMENT

ANGLING RIVER NEAR BIRD - STATION NO. OSUN001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	0.839	0.695	0.808	0.803	17.3	32.8	24.3	13.2	10.8	15.6	7.38	3.87	10.7	1979
1980	1.25	0.828	0.842	17.7	28.2	24.0	32.4	27.7	30.3	18.5	8.28	3.21	18.1	1980
1981	1.68	1.16	0.733	0.688	46.3	30.0	12.8	16.3	5.88	19.4	8.98	2.80	12.2	1981
1982	1.32	0.935	0.781	0.804	45.4	15.5	7.07	8.85	10.8	14.4	5.90	3.18	8.85	1982
1983	2.08	1.59	1.29	1.11	26.6	123	7.42	14.0	37.8	21.8	10.0	5.08	20.8	1983
1984	3.14	1.88	1.26	---	---	26.6	8.07	2.19	1.43	2.75	2.18	1.38	---	1984
MEAN	1.75	1.18	0.802	4.18	33.0	42.0	15.0	13.7	18.2	15.6	8.45	3.21	13.8	MEAN

LOCATION - LAT 55 40 38 N DRAINAGE AREA, 1 830 km²
LONG 93 38 20 W NATURAL FLOW

ANGLING RIVER NEAR BIRD - STATION NO. OSUN001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	---	48.5 ON JUN 4	0.4008 ON APR 13 *	337 000	1979
1980	89.4 AT 22:34 CST ON APR 25	88.5 ON APR 25	0.8008 ON FEB 13	568 000	1980
1981	---	118 B ON MAY 21	0.6558 ON MAY 12	384 000	1981
1982	---	88.58 ON MAY 8	0.7128 ON APR 24	305 000	1982
1983	313 AT 18:00 CST ON JUN 2 *	307 ON JUN 2 *	1.02 B ON MAY 17	880 000	1983
1984	---	---	---	---	1984
				439 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ANTLER RIVER NEAR MELITA - STATION NO. OSNF002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1935	---	---	---	---	---	---	---	---	---	0.001	---	---	---	1935
1936	---	---	---	---	0.323	0.038	---	---	---	---	---	---	---	1936
1938	---	---	---	0.028	0.002	---	---	---	---	---	---	---	---	1938
1943	---	---	0	11.3	0.917	1.48	0.484	0.081	0.022	0.008	---	---	---	1943
1944	---	---	0	0.289	0.137	0.629	1.37	0.289	0.104	0.018	---	---	---	1944
1945	---	---	0.325	0.534	0.132	0.181	0.374	0.058	0.002	0	---	---	---	1945
1946	---	---	2.45	8.48	0.323	0.108	0.047	0.001	0	0	---	---	---	1946
1947	---	---	0	7.20	0.819	3.36	3.83	0.275	0.033	0.005	---	---	---	1947
1948	---	---	0	11.8	8.23	0.888	0.522	0.488	0.084	0.013	---	---	---	1948
1949	---	---	0	8.93	0.818	3.68	0.288	0.135	0.011	0.017	0.033	---	---	1949
1950	---	---	0.831	7.18	3.80	1.84	1.83	3.37	0.539	0.731	---	---	---	1950
1951	---	---	0	12.4	10.0	1.17	0.272	0.334	0.110	0.047	---	---	---	1951
1952	---	---	0.022	3.18	0.124	0.010	0.088	0	0	0.003	---	---	---	1952
1953	---	---	0.018	2.84	0.389	2.21	0.878	0.088	0	0.088	0.288	---	---	1953
1954	---	---	0	0.400	0.278	4.84	3.91	0.288	0.327	0.882	0.850	---	---	1954
1955	---	---	0	18.8	8.03	2.88	1.47	0.278	0.102	0.131	---	---	---	1955
1956	---	---	0.002	11.8	2.40	0.487	0.218	0.020	0	0.005	---	---	---	1956
1957	---	---	0.809	1.83	0.381	0.225	0.004	0	0	0	---	---	---	1957
1958	---	---	0.898	4.84	0.232	0	0	0	0	0	---	---	---	1958
1959	---	---	0.370	0.177	0.019	0.001	0	0	0	0.003	---	---	---	1959
1960	---	---	0.018	5.98	0.227	0.070	0.001	0	0	0	---	---	---	1960
1961	---	---	0.005	0.002	0.003	0	0	0	0	0	---	---	---	1961
1962	---	---	0	0	0	0	0	0	0	0	---	---	---	1962
1963	---	---	0	0	0	0.758	0.048	0.167	0.521	0.055	---	---	---	1963
1964	---	---	0	4.10	2.18	0.388	0.188	0.027	0.004	0.003	---	---	---	1964
1965	---	---	0	1.78	0.878	0.403	0.088	0.011	0.007	0.030	---	---	---	1965
1966	---	---	1.28	3.00	1.82	0.348	0.121	0.008	0	0	---	---	---	1966
1967	---	---	0.010	0.384	0.250	0.048	0.003	0	0	0	---	---	---	1967
1968	---	---	0.203	0.183	0.011	0	0.012	0.015	0.008	0	---	---	---	1968
1969	---	---	0	38.7	2.18	0.882	2.58	0.561	0.035	0.081	---	---	---	1969
1970	---	---	0.045	5.08	0.88	1.04	0.282	0.181	0.014	0.128	---	---	---	1970
1971	---	---	0.010	1.83	0.445	1.17	0.391	0.008	0.001	0.008	---	---	---	1971
1972	---	---	8.88	4.11	0.743	0.835	0.324	0.200	0.048	0.011	---	---	---	1972
1973	---	---	0.487	0.248	0.188	0.474	0.081	0.003	0	0.001	---	---	---	1973
1974	---	---	0	20.2	5.88	1.84	0.448	0.088	0.002	0.004	---	---	---	1974
1975	---	---	0.008	8.14	14.4	4.23	0.873	0.525	1.88	2.75	---	---	---	1975
1976	---	---	0.283	83.3	5.88	1.78	0.812	0.123	0.010	0.012	---	---	---	1976
1977	---	---	0.014	0.088	0.132	0.010	0	0	0	0	0	0	---	1977
1978	0	0	0.002	1.68	0.101	0	0	0	0	0	0	0	0.088	1978
1979	0	0	0	7.39	2.84	0.414	0.088	0.035	0.007	0	0	0	0.877	1979
1980	0	0	0	0.084	0.088	0	0	0	0	0	0	0	0.013	1980
1981	0	0.228	0.352	0.023	0.001	0	0	0	0	0	0	0	0.048	1981
1982	0	0	0	5.23	0.734	0.204	0.117	0.001	0	0	0	0	0.518	1982
1983	0	0	0.051	8.27	1.14	0.195	0.078	0	0	0	0	0	0.838	1983
1984	0	0	0.001	0.306	0.185	0.018	0	0	0	0	0	0	0.032	1984
MEAN	0	0.033	0.352	8.42	1.85	0.882	0.510	0.178	0.088	0.110	0.087	0	0.318	MEAN

LOCATION - LAT 49 03 34 N DRAINAGE AREA, 3 210 km²
LONG 101 02 58 W NATURAL FLOW

REMARKS - MONTHLY MEAN NATURAL FLOWS FOR THE PERIOD 1912-77 HAVE BEEN COMPUTED BY THE PRAIRIE PROVINCES WATER BOARD

ANTLER RIVER NEAR MELITA - STATION NO. 05NF002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1935	---	---	---	---	1935
1936	---	---	0 ON SEP 28 *	---	1936
1937	---	---	---	---	1937
1938	---	---	0 ON MAY 15	---	1938
1943	---	---	---	---	1943
1944	---	47.3 ON APR 8	0B ON MAR 1	---	1944
		4.58 ON JUL 2	0B ON MAR 1	---	
1945	---	---	---	---	1945
1946	---	3.23 B ON MAR 29	0B ON MAR 1	---	1946
1947	---	41.3 B ON MAR 31	0B ON MAR 1	---	1947
1948	---	29.7 ON JUN 29	0B ON MAR 1	---	1948
1949	---	73.8 ON APR 25	0B ON MAR 1	---	1949
		59.5 ON APR 14	0B ON MAR 1	---	
1950	---	---	---	---	1950
1951	---	15.7 B ON APR 21	0B ON MAR 1	---	1951
1952	---	34.6 ON APR 14	0B ON MAR 1	---	1952
1953	---	8.58 B ON APR 6	0B ON MAR 1	---	1953
1954	---	9.87 B ON APR 7	0B ON MAR 1	---	1954
		12.0 ON JUN 21	0B ON MAR 1	---	
1955	---	---	---	---	1955
1956	---	58.9 ON APR 8	0B ON MAR 1	---	1956
1957	---	30.6 ON APR 15	0B ON MAR 1	---	1957
1958	---	6.71 B ON MAR 30	0B ON MAR 1	---	1958
1959	---	17.7 ON APR 4	0B ON MAR 1	---	1959
		2.07 ON MAR 30	0B ON MAR 1	---	
1960	---	21.5 ON APR 7	0B ON MAR 1	---	1960
1961	---	0.028 ON MAR 20	0 ON MAR 1	---	1961
1962	---	0 ON MAR 1	0 ON MAR 1	---	1962
1963	---	2.86 ON JUN 9	0 ON MAR 1	---	1963
1964	---	9.91 B ON APR 8	0B ON MAR 1	---	1964
1965	---	5.56 B ON APR 17	0B ON MAR 1	---	1965
1966	---	5.54 B ON APR 6	0B ON MAR 1	---	1966
1967	---	0.708 ON APR 21	0B ON MAR 1	---	1967
1968	---	0.8788 ON APR 3	0B ON MAR 1	---	1968
1969	---	108 ON APR 17	0B ON MAR 1	---	1969
1970	---	27.2 ON MAY 5	0B ON MAR 1	---	1970
1971	---	4.53 B ON APR 13	0 ON AUG 22	---	1971
1972	---	22.7 B ON MAR 28	0B ON MAR 1	---	1972
1973	---	1.27 B ON MAR 25	0B ON MAR 1	---	1973
1974	---	73.6 B ON APR 20	0B ON MAR 1	---	1974
1975	62.3 AT 18:55 CST ON MAY 3	61.7 ON MAY 3	---	---	1975
1976	118 AT 08:27 CST ON APR 14 *	118 ON APR 14 *	0 ON AUG 30	---	1976
1977	---	0.215 ON MAY 17	0B ON MAR 1	---	1977
1978	42.4 AT 01:20 CST ON APR 26	3.71 B ON APR 4	0B ON JAN 1	3 030	1978
		38.8 ON APR 26	0B ON JAN 1	27 700	
1980	0.953 AT 17:55 CST ON APR 18	0.388 ON APR 18	0B ON JAN 1	402	1980
1981	---	2.88 B ON FEB 27	0B ON JAN 1	1 580	1981
1982	28.1 AT 05:32 CST ON APR 18	28.0 ON APR 18	0B ON JAN 1	18 400	1982
1983	13.8 AT 07:27 CST ON APR 27	13.5 ON APR 27	0B ON JAN 1	20 100	1983
1984	0.8888 AT 07:05 CST ON APR 3	0.4378 ON APR 3	0B ON JAN 1	1 020	1984
				10 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ARROW RIVER NEAR ARROW RIVER - STATION NO. 05MC001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.388	0.132	0.052	0.014	0	0	0	0.059	---	---	0.061	1959
1960	---	---	0	3.02	0.190	0.141	0	0	0	0	---	---	0.288	1960
1961	---	---	0.044	0.120	0.087	0.010	0	0	0	0	---	---	0.030	1961
1962	---	---	0	0.598	0.058	0.032	0	0.085	0.006	0.052	---	---	0.102	1962
1963	---	---	0.588	0.635	0.099	0.173	0.018	0.013	0.018	0.012	---	---	0.228	1963
1964	---	---	0	1.83	0.274	0.030	0.038	0.008	0.004	0.029	---	---	0.284	1964
1965	---	---	0	1.82	0.133	0.086	0.008	0	0.137	0.043	---	---	0.234	1965
1966	---	---	0.200	0.814	0.300	0.048	0.008	0.031	0.001	0.013	---	---	0.150	1966
1967	---	---	0.012	3.21	0.847	0.030	0	0	0	0.005	---	---	0.508	1967
1968	---	---	0.814	0.531	0.057	0.010	0.037	0.034	0.027	0.087	---	---	0.187	1968
1969	---	---	0	5.41	0.248	0.048	0.132	0.002	0.013	0.052	---	---	0.725	1969
1970	---	---	0	1.90	0.688	0.088	0.007	0	0.071	0.078	---	---	0.338	1970
1971	---	---	0.007	0.886	0.098	0.880	0.442	0.010	0.010	0.124	---	---	0.285	1971
1972	---	---	0.803	2.37	0.455	0.033	0.001	0.010	0	0.013	---	---	0.432	1972
1973	---	---	0.133	0.082	0.051	0.028	0.022	0.008	0.028	0.054	---	---	0.048	1973
1974	---	---	0	4.09	0.838	0.085	0.005	0	0.002	0.004	---	---	0.815	1974
1975	---	---	0	1.85	0.883	0.332	0.033	0.087	0.188	0.148	---	---	0.410	1975
1976	---	---	0	5.71	0.478	0.118	0.025	0	0.002	0.040	---	---	0.782	1976
1977	---	---	0.087	0.228	0.134	0.134	0.040	0	0.008	0.028	---	---	0.080	1977
1978	---	---	0.144	0.888	0.152	0.084	0.147	0.004	0.022	0.040	---	---	0.182	1978
1979	---	---	0.003	3.18	1.80	0.188	0.008	0	0	0	---	---	0.810	1979
1980	---	---	0.010	0.418	0.013	0	0.028	0.088	0.021	0.088	---	---	0.078	1980
1981	---	0.321	0.047	0.088	0.088	0.072	0.011	0.011	0.048	0.088	---	---	0.048	1981
1982	---	---	0.467	1.82	0.111	0.077	0.048	0	0.001	0.087	---	---	0.318	1982
1983	---	---	0	2.46	0.781	0.080	0.038	0	0	0	---	---	0.408	1983
1984	---	---	0.148	0.080	0.047	0.028	0.001	0	0	0.008	---	---	0.040	1984
MEAN	---	0.321	0.181	1.81	0.341	0.087	0.042	0.013	0.023	0.041	---	---	0.288	MEAN

LOCATION - LAT 50 05 10 N DRAINAGE AREA, 871 km^2
LONG 100 57 30 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM DAILY DISCHARGE OF 0.712 m^3/s OCCURRED IN FEB

ARROW RIVER NEAR ARROW RIVER - STATION NO. 05MG001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.46 B ON MAR 21	0S ON MAR 1 *	1 720	1959
1960	---	8.17 ON APR 14	0S ON MAR 1	8 100	1960
1961	---	0.4255 ON MAR 29	0S ON MAR 1	832	1961
1962	---	2.65 ON APR 15	0S ON MAR 1	2 180	1962
1963	---	5.15 B ON MAR 27	0S ON MAR 1	4 830	1963
1964	---	6.20 ON APR 15	0S ON MAR 1	6 010	1964
1965	---	8.41 B ON APR 13	0S ON MAR 1	4 940	1965
1966	---	1.81 B ON APR 1	0S ON MAR 1	3 180	1966
1967	---	7.32 B ON APR 12	0S ON MAR 1	10 700	1967
1968	---	5.52 B ON MAR 27	0S ON MAR 1	4 180	1968
1969	---	30.0 ON APR 11 *	0S ON MAR 1	15 300	1969
1970	---	4.83 B ON APR 10	0S ON MAR 1	7 110	1970
1971	---	2.70 B ON APR 7	0 ON MAR 1	5 380	1971
1972	---	4.28 ON APR 12	0S ON MAR 1	8 130	1972
1973	---	0.4388 ON MAR 16	0S ON MAR 1	1 010	1973
1974	10.7 AT 15:00 CST ON APR 15 *	14.3 ON APR 16	0S ON MAR 1	13 000	1974
1975	8.06 AT 00:05 CST ON APR 29	5.49 ON APR 29	0S ON MAR 1	8 670	1975
1976	---	17.6 B ON APR 10	0S ON MAR 1	18 800	1976
1977	1.35 B AT 18:11 CST ON APR 3	0.883 ON MAY 19	0S ON MAR 1	1 890	1977
1978	2.50 B AT 13:46 CST ON APR 1	1.76 B ON MAR 31	0S ON MAR 1	3 230	1978
1979	---	18.3 B ON APR 21	0 ON JUL 9	12 900	1979
1980	---	1.87 B ON APR 3	0S ON MAR 1	1 800	1980
1981	---	0.248 ON SEP 1	0 ON JUL 11	1 010	1981
1982	---	8.13 B ON APR 11	0S ON MAR 1	8 730	1982
1983	---	8.13 B ON APR 10	0S ON MAR 1	8 830	1983
1984	0.831B AT 12:57 CST ON MAR 22	0.5795 ON MAR 24	0S ON MAR 1	842	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 050	MEAN

ARROW RIVER NEAR KELLOE - STATION NO. 05MG009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	---	---	0.001	0	0	0	0	0	0	0	---	---	0	1986
1987	---	---	0	0.010	0	0	0	0	0	0	---	---	0.001	1987
1988	---	---	0.004	0	0	0	0	0	0	0	---	---	0.001	1988
1989	---	---	0	0.008	0	0	0	0	0	0	---	---	0.001	1989
1970	---	---	0	0.008	0.001	0	0	0	0	0	---	---	0.001	1970
1971	---	---	0	0.008	0	0	0	0	0	0	---	---	0.001	1971
1972	---	---	0	0.023	0.012	0	0	0	0	0	---	---	0.004	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	0.024	0.002	0	0	0	0	0	---	---	0.003	1974
1975	---	---	0	0.005	0	0	0	0	0	0	---	---	0.001	1975
MEAN	---	---	0.001	0.008	0.002	0	0	0	0	0	---	---	0.001	MEAN

LOCATION - LAT 50 25 05 N DRAINAGE AREA, 3.37 km^2
LONG 100 49 02 W NATURAL FLOW

REMARKS - DAILY DISCHARGES PRIOR TO 1973 HAVE NOT BEEN PUBLISHED

ARROW RIVER NEAR KELLOE - STATION NO. 05MG009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1986	---	0.0108 ON MAR 30	0S ON MAR 1 *	4.08	1986
1987	---	0.0858 ON APR 14	0S ON MAR 1	28.8	1987
1988	---	0.0518 ON MAR 28	0S ON MAR 1	12.7	1988
1989	---	0.0408 ON APR 8	0S ON MAR 1	14.5	1989
1970	---	0.0228 ON APR 13	0S ON MAR 1	16.0	1970
1971	---	0.0828 ON APR 7	0S ON MAR 1	23.8	1971
1972	---	0.078 ON APR 24	0S ON MAR 1	52.7	1972
1973	---	0 B ON MAR 1	0S ON MAR 1	0	1973
1974	---	0.3548 ON APR 17 *	0S ON MAR 1	88.4	1974
1975	---	0.0488 ON APR 14	0S ON MAR 1	14.7	1975
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		27.0	MEAN

ASSINIBOINE RIVER AT BRANDON - STATION NO. 05MH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1906	---	---	---	14.2	16.7	21.4	17.7	8.46	22.8	20.8	14.2	---	---	1906
1907	---	---	---	84.9	133	139	123	80.0	90.8	76.0	51.0	---	---	1907
1908	---	---	---	85.1	108	86.5	83.3	38.0	27.8	32.1	28.4	---	---	1908
1909	---	---	---	85.0	107	48.6	49.5	75.8	34.3	28.9	22.7	---	---	1909
1910	---	---	---	58.7	34.8	82.7	88.1	28.7	19.4	16.3	14.2	---	---	1910
1911	---	---	---	42.6	88.5	84.7	83.3	30.7	27.2	38.6	19.8	---	---	1911
1912	---	---	---	88.1	182	130	80.6	48.2	67.7	101	52.2	26.8	---	1912
1913	12.0 R	10.8 R	11.4 R	178 R	268	88.1	118	102	45.7	29.3	18.8	11.8	77.4 R	1913
1914	8.46 R	8.51 R	11.1 R	81.7 R	152	88.1	21.8	7.84	8.34	8.64	7.09	4.81	30.0 R	1914
1915	1.48 R	2.57 R	3.42R	27.2 R	16.4	13.0	15.0	10.1	8.87	8.48R	8.74R	4.39 R	9.49R	1915
1916	2.48 R	2.59 R	2.58R	118 R	72.1	84.8	80.3	24.6	13.8	17.0	18.4 R	10.3 R	39.0 R	1916
1917	4.88	3.86	4.41	53.3	172	72.2	82.4	20.1	11.1	7.47	7.93	4.53	35.8	1917
1918	2.27	2.59	8.47	81.7 R	26.8 R	28.2 R	22.6 R	10.8	8.88	8.21	7.00	4.08	15.3 R	1918
1919	3.40	2.87	2.51	83.1	34.8	17.3	32.2	9.09	8.17	9.72	8.23	4.08	17.8	1919
1920	4.25	4.26	8.08	87.3	185	70.0	32.1	12.3	8.88	8.80	11.8	8.80	33.7	1920
1921	4.24	3.36	4.38	104	124	88.5	104	41.8	28.5	80.8	86.4	24.8	53.1	1921
1922	12.2	7.28	10.4	130	432	228	88.8	31.8	21.8	18.1	17.2	10.8	82.8	1922
1923	7.27	6.18	8.03	128	412	122	128	75.4	38.5	27.3	22.3	18.1	82.7	1923
1924	8.83	8.36	8.86	82.8	88.2	80.3	38.6	22.8	16.7	18.7	16.8	9.84	29.7	1924
1925	5.88 R	5.06	22.0	231	137	88.3	87.8	18.8	11.7	13.0	9.88	8.48	80.4 R	1925
1926	3.82	2.88	8.08	88.0	41.0	27.0	15.1	7.73	13.8	18.8	14.2	8.81	18.0	1926
1927	8.83	4.84	7.08	140	388	158	88.8	48.8	27.3	40.8	21.8	11.2	78.1	1927
1928	8.88	7.08	18.8	148	101	82.3	87.8	28.8	14.8	12.8	12.8	8.84	44.1	1928
1929	3.78	4.13	8.41	37.3	48.8	28.1	13.8	8.22	4.78	8.28	8.47	4.58	13.8	1929
1930	2.81	2.38	4.18	87.8	37.4	21.4	15.2	8.37	2.84	4.40	3.85	2.42	13.3	1930
1931	2.37	2.28	8.03	18.3	10.8	7.38	8.88	4.18	4.03	4.38	3.88	1.88	8.88	1931
1932	1.83	1.70	2.32	37.4	28.1	10.8	10.7	8.32	4.85	8.48	8.38	3.74	8.80	1932
1933	2.87	2.72	3.17	78.7	40.2	48.8	24.8	8.02	4.81	8.88	8.88	4.28	18.8	1933
1934	2.87	3.40	17.0	78.8	48.8	18.4	8.88	2.87	3.10	4.12	4.23	2.83	18.1	1934
1935	2.17	2.48	4.00	35.8	23.7	27.2	88.8	21.3	11.7	8.87	8.48	4.48	20.8	1935
1936	3.88	2.78	2.43	180	122	40.7	18.8	7.32	4.27	4.83	3.88	2.70	30.3	1936
1937	1.83	1.73	2.38	20.8	20.8	17.3	8.28	2.21	1.44	3.80	3.03	0.881	8.77	1937
1938	1.42	1.78	20.8	88.3	27.8	13.0	8.08	8.71	3.20	3.48	3.07	2.31	12.2	1938
1939	2.08	1.78	8.73	31.4	18.4	8.81	10.8	8.47	3.08	3.47	3.88	2.83	8.48	1939
1940	0.828	0.883	1.03	7.87	11.0	8.28	3.88	3.08	2.13	2.87	3.03	1.88	3.70	1940
1941	2.08	2.08	2.13	41.8	22.1	11.0	3.88	2.13	3.88	3.82	3.81	2.30	8.33	1941
1942	1.11	0.808	11.8	112	38.8	33.3	17.3	18.8	21.8	13.4	8.88	2.43	22.8	1942
1943	3.08	1.82	3.88	141	81.7	81.8	37.8	14.7	8.88	7.48	8.84	4.08	33.8	1943
1944	1.28	1.88	1.88	18.8	17.2	28.2	42.8	11.0	8.04	8.41	8.88	3.00	12.4	1944
1945	1.12	1.88	10.2	81.1	42.4	28.8	24.2	10.2	8.00	7.74	8.70	2.70	15.8	1945
1946	1.78	1.88	18.0	118	38.1	14.7	38.8	8.28	4.81	13.3	13.8	4.40	22.8	1946
1947	2.18	2.38	2.82	108	178	82.7	192	28.8	17.4	17.4	11.3	8.48	84.8	1947
1948	8.88	8.77	8.34	78.8	348	108	80.8	38.7	13.1	8.74	8.12	8.08	88.8	1948
1949	2.87	1.87	1.88	78.8	23.8	84.7	18.4	18.8	7.07	8.88	8.40	4.80	18.8	1949
1950	2.87	2.88	8.81	86.0	101	83.4	74.4	44.2	18.0	18.8	13.7	8.83	34.3	1950
1951	8.33	4.38	4.84	123	132	43.3	28.7	12.4	18.7	23.0	17.8	7.44	34.8	1951
1952	3.70	3.28	4.27	82.8	83.8	24.4	14.8	8.84	17.0	8.83	8.83	3.88	18.0	1952
1953	2.78	3.21	3.77	108	81.8	112	118	78.7	37.0	24.3	25.8	12.7	80.4	1953
1954	8.72	7.32	8.88	88.8	138	188	282	87.8	48.7	72.8	48.8	31.1	78.0	1954
1955	18.8	18.8	13.7	238	371	241	118	81.8	38.1	30.7	28.0	18.1	88.0	1955
1956	13.2	12.8	13.8	120	388	282	142	87.3	38.4	21.7	21.2	13.8	80.3	1956
1957	10.8	7.28	21.1	118	208	88.8	28.4	13.0	8.77	10.8	12.2	8.24	41.7	1957
1958	4.20	4.87	11.0	88.4	24.8	10.8	8.18	3.88	3.42	8.81	8.78	2.88	12.0	1958
1959	1.84	1.48	7.38	40.8	23.8	13.8	14.8	4.88	4.38	7.81	8.33	7.30	11.3	1959
1960	8.43	4.87	3.83	132	118	80.8	24.2	8.72	3.42	3.11	3.47	2.42	30.3	1960
1961	2.88	1.88	3.87	18.3	10.7	4.08	1.87	0.828	1.22	1.81	2.00	1.18	4.04	1961
1962	1.34	1.28	2.28	33.7	40.3	10.8	8.10	8.33	3.34	4.83	4.18	2.08	8.84	1962
1963	1.88	1.18	12.7	48.1	20.7	38.8	18.3	8.88	8.48	8.08	4.47	3.28	14.4	1963
1964	2.83	3.47	4.87	88.8	88.1	18.1	7.48	4.22	3.77	4.07	4.87	2.88	13.7	1964
1965	2.88	3.88	4.18	103	87.4	81.8	30.0	12.3	18.2	18.2	7.32	8.88	28.8	1965
1966	7.80	8.88	7.27	87.0	112	38.8	27.8	13.4	8.81	4.88	3.82	3.88	27.8	1966
1967	8.14	8.71	8.82	88.8	123	42.1	10.1	4.11	2.18	4.01	8.34	8.88	23.7	1967
1968	4.80	4.77	13.0	81.8	20.0	10.8	8.28	10.8	8.13	8.18	4.88	3.17	12.8	1968
1969	3.88	4.80	4.88	170	78.8	38.8	48.8	18.8	8.33	11.8	13.1	13.1	34.3	1969
1970	10.8	11.2	12.1	77.8	180	74.3	48.8	28.8	13.8	16.7	21.7	14.1	42.8	1970
1971	12.0	11.0	12.8	82.0	88.7	77.4	48.8	22.8	8.40	18.8	28.8	21.8	32.3	1971
1972	21.2	21.0	38.0	120	131	87.8	18.7	8.28	8.83	10.0	14.2	17.7	38.0	1972
1973	18.3	14.0	14.7	14.1	8.28	11.2	8.88	8.87	8.14	17.8	14.8	13.8	12.8	1973
MEAN	8.20 R	4.88 R	8.21R	81.1 R	104 R	88.8 R	48.8 R	22.4	15.8	18.1 R	13.1 R	7.87 R	31.1	MEAN

LOCATION - LAT 48 81 02 N DRAINAGE AREA, 88 000 km²
LONG 88 88 12 W REGULATED

R - REVISED SINCE JAN 1980

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1906	---	37.4 ON SEP 29	---	---	1906
1907	---	212 ON MAY 2	---	---	1907
1908	---	159 ON JUL 1	---	---	1908
1909	---	119 ON MAY 13	---	---	1909
1910	---	103 ON JUL 5	---	---	1910
1911	---	105 ON JUN 8	---	---	1911
1912	---	202 ON MAY 21	---	---	1912
1913	---	422 ON MAY 1	10.6 RB ON FEB 8	2 440 000R	1913
1914	---	188 ON MAY 30	3.00 B ON DEC 30	947 000R	1914
1915	---	69.7 ON APR 16	1.05 RB ON JAN 13	288 000R	1915
1916	---	259 ON APR 19	1.85 RB ON JAN 9	1 230 000R	1916
1917	---	184 ON MAY 25	2.55 B ON DEC 28	1 120 000	1917
1918	---	78.7 ON APR 7	1.98 B ON JAN 28	481 000R	1918
1919	---	161 B ON APR 15	2.41 B ON MAR 17	581 000	1919
1920	---	217 ON MAY 19	3.37 B ON JAN 1	1 070 000	1920
1921	---	148 ON APR 27	3.08 B ON FEB 25	1 870 000	1921
1922	---	803 ON MAY 8	6.80 B ON MAR 11	2 800 000	1922
1923	---	851 ON MAY 7 *	5.15 B ON FEB 16	2 810 000	1923
1924	---	134 ON MAY 1	7.42 B ON DEC 31	939 000	1924
1925	---	258 ON APR 5	4.81 B ON DEC 31	1 590 000R	1925
1926	---	112 ON APR 26	2.83 B ON JAN 31	588 000	1926
1927	---	484 ON MAY 5	4.50 B ON FEB 21	2 480 000	1927
1928	---	228 ON APR 13	3.98 B ON DEC 30	1 380 000	1928
1929	---	118 ON MAY 1	3.64 B ON DEC 31	438 000	1929
1930	---	98.6 ON APR 16	1.98 B ON FEB 8	418 000	1930
1931	---	39.4 ON APR 17	1.70 B ON FEB 12	188 000	1931
1932	---	78.0 ON APR 18	1.53 B ON JAN 1	300 000	1932
1933	---	88.6 ON APR 11	2.72 B ON FEB 1	583 000	1933
1934	---	118 ON APR 14	3.29 B ON DEC 31	907 000	1934
1935	---	185 ON JUL 3	1.87 B ON FEB 4	848 000	1935
1936	---	303 B ON APR 15	3.21 B ON DEC 31	958 000	1936
1937	---	48.3 ON APR 22	0.8808 ON DEC 20	214 000	1937
1938	---	70.8 ON MAR 26	0.9918 ON JAN 1	388 000	1938
1939	---	47.3 ON APR 28	1.50 B ON MAR 3	288 000	1939
1940	---	23.4 ON APR 25	0.4708 ON FEB 4	117 000	1940
1941	---	84.3 ON APR 18	1.58 B ON FEB 27	283 000	1941
1942	---	174 B ON APR 8	0.1988 ON FEB 21 *	721 000	1942
1943	---	167 ON APR 20	1.30 B ON MAR 8	1 080 000	1943
1944	---	73.6 ON JUL 8	0.9838 ON JAN 15	382 000	1944
1945	---	88.3 ON APR 7	0.8508 ON JAN 8	501 000	1945
1946	---	210 ON APR 9	1.25 B ON JAN 8	718 000	1946
1947	---	314 ON JUL 8	1.98 B ON JAN 4	1 720 000	1947
1948	---	450 ON MAY 7	4.64 B ON FEB 28	1 780 000	1948
1949	---	145 ON APR 14	0.7938 ON FEB 16	587 000	1949
1950	---	157 ON JUL 15	2.52 B ON JAN 31	1 080 000	1950
1951	---	214 ON APR 15	3.57 B ON DEC 31	1 080 000	1951
1952	---	134 B ON APR 15	1.70 ON NOV 21	603 000	1952
1953	---	185 ON JUN 4	2.46 B ON JAN 15	1 580 000	1953
1954	---	360 ON JUL 8	5.37 B ON FEB 11	2 490 000	1954
1955	---	541 ON MAY 20	11.6 B ON MAR 17	3 120 000	1955
1956	---	430 ON MAY 18	11.3 B ON DEC 23	2 880 000	1956
1957	---	243 ON MAY 5	4.67 B ON DEC 28	1 320 000	1957
1958	---	135 B ON APR 5	1.30 B ON DEC 21	378 000	1958
1959	---	89.5 ON APR 15	0.9838 ON JAN 20	357 000	1959
1960	245 B AT 18:00 CST ON APR 15	241 ON APR 16	2.27 B ON DEC 16	980 000	1960
1961	---	22.1B ON APR 11	0.588 ON AUG 22	127 000	1961
1962	---	84.7 ON APR 28	1.06 B ON JAN 27	304 000	1962
1963	80.6 AT 14:00 CST ON JUN 13	88.6 ON JUN 13	0.7898 ON FEB 7	453 000	1963
1964	153 AT 19:00 CST ON APR 17	133 ON APR 18	1.78 A ON AUG 25	434 000	1964
1965	200 AT 08:00 CST ON APR 20	198 ON APR 20	2.58 B ON JAN 18	847 000	1965
1966	154 AT 12:00 CST ON MAY 6	154 ON MAY 6	2.85 B ON NOV 30	888 000	1966
1967	---	159 ON APR 21	1.80 ON SEP 8	748 000	1967
1968	---	81.0 ON APR 12	2.44 B ON DEC 31	398 000	1968
1969	382 AT 07:48 CST ON APR 17 *	380 ON APR 17	2.28 B ON JAN 2	1 080 000	1969
1970	223 AT 23:38 CST ON MAY 15	222 ON MAY 15	10.1 ON SEP 17	1 340 000	1970
1971	185 AT 08:21 CST ON APR 18	143 ON APR 18	8.28 ON SEP 25	1 020 000	1971
1972	223 AT 08:00 CST ON APR 20	221 ON APR 20	5.13 ON SEP 5	1 230 000	1972
1973	---	34.6B ON APR 5	4.02 ON AUG 20	398 000	1973
				981 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	14.2	11.3	11.3	147	318	130	108	113	57.3	33.2	---	14.2	---	1913
1914	10.0	9.01	8.20	98.2	173	93.7	35.1	16.2	12.2	11.8	8.50	5.51	40.1	1914
1915	3.48	3.07	5.84	30.2	23.9	17.9	16.9	15.4	10.8	12.4	9.81	4.53	13.1	1915
1916	6.42	6.16	6.44	202	189	143	112	61.7	22.3	23.5	21.5	12.2	66.5	1916
1917	6.81	6.96	6.81	89.0	206	113	74.3	32.6	19.1	15.6	16.2	8.13	46.0	1917
1918	3.14	3.25	8.52	72.0	40.1	38.1	26.5	17.7	17.5	12.5	11.8	7.88	21.7	1918
1919	6.58	5.90	6.04	113	80.5	36.8	36.6	17.6	14.6	16.1	10.7	6.55	29.3	1919
1920	5.28	4.88	8.13	86.2	240	115	39.6	22.5	13.7	12.1	13.8	7.48	47.5	1920
1921	5.21	3.78	5.13	113	146	83.2	117	58.5	35.6	56.5	58.7	30.7	60.8	1921
1922	16.8	8.88	17.7	162	412	278	90.6	46.9	32.2	27.6	26.7	16.6	86.0	1922
1923	13.3	11.7	10.6	154	478	203	148	105	60.6	38.6	32.1	27.5	107	1923
1924	12.4	11.8	14.5	82.6	134	82.3	81.3	32.7	25.8	26.4	22.4	15.1	42.0	1924
1925	8.71	7.48	16.7	285	209	125	84.0	32.7	20.6	20.1	16.8	13.2	68.3	1925
1926	7.88	7.57	11.8	86.5	80.8	35.8	27.5	14.8	20.6	25.2	20.4	15.4	28.4	1926
1927	12.1	10.2	20.2	226	438	284	158	78.6	56.2	64.1	28.6	19.2	117	1927
1928	16.1	12.7	33.4	247	170	120	147	75.2	42.3	29.8	24.0	10.8	77.5	1928
1929	8.07	8.38	10.4	49.8	73.8	47.8	28.0	11.0	7.85	8.58	7.28	8.85	22.3	1929
1930	7.02	6.31	7.70	138	78.2	40.4	27.3	13.0	10.0	10.3	7.08	5.87	28.3	1930
1931	8.33	8.09	8.12	36.4	20.8	12.4	11.0	7.07	7.21	7.84	7.85	4.81	11.4	1931
1932	3.87	3.24	4.84	78.2	42.1	18.3	15.1	8.42	7.18	7.82	7.86	5.34	18.9	1932
1933	4.28	3.88	4.75	122	73.2	61.8	35.1	13.6	8.00	7.03	7.88	8.85	28.1	1933
1934	5.88	6.84	28.2	108	72.2	28.4	13.8	7.85	8.83	7.85	8.90	3.80	24.8	1934
1935	3.13	2.83	4.28	78.0	41.7	32.7	150	44.8	22.8	15.4	9.43	6.88	34.7	1935
1936	5.14	5.34	3.85	188	184	87.7	36.8	12.8	10.1	8.56	7.37	3.18	38.0	1936
1937	3.11	3.66	4.33	25.7	34.5	28.5	12.8	8.81	8.20	8.12	8.28	3.27	12.2	1937
1938	2.87	3.35	30.0	76.5	40.7	18.0	12.8	8.88	8.09	8.04	8.07	4.88	18.0	1938
1939	4.12	3.90	4.40	63.8	28.3	17.1	12.1	8.88	8.23	8.22	8.28	4.81	13.2	1939
1940	1.83	2.08	2.84	16.3	20.8	10.8	7.28	8.27	8.75	8.38	4.47	3.37	7.28	1940
1941	3.13	4.08	3.81	76.3	40.7	22.7	10.8	8.40	10.8	8.47	8.07	8.89	18.4	1941
1942	1.88	2.88	11.8	184	84.0	48.8	28.2	21.1	28.8	20.5	12.8	8.82	37.4	1942
1943	8.88	8.27	8.16	192	171	140	77.8	34.7	17.2	14.4	12.2	8.70	58.8	1943
1944	3.38	4.11	4.13	39.2	37.3	47.2	83.3	38.2	27.0	21.8	14.2	8.38	27.8	1944
1945	8.17	8.88	27.2	102	88.8	41.1	35.8	18.1	12.2	13.1	8.12	6.84	28.8	1945
1946	4.71	4.77	27.8	182	88.8	28.2	32.5	17.5	11.1	17.5	17.7	8.34	31.8	1946
1947	4.78	4.87	8.83	144	217	81.8	224	88.7	31.2	27.0	17.7	13.2	70.5	1947
1948	11.8	8.80	8.87	83.5	383	210	88.0	88.5	29.4	18.7	15.3	12.8	78.8	1948
1949	10.4	8.30	8.47	188	181	87.8	38.8	33.1	14.1	13.7	15.2	10.4	47.7	1949
1950	8.17	8.80	8.03	112	228	185	117	78.7	38.4	28.1	21.0	12.4	87.8	1950
1951	11.8	11.0	13.4	187	237	118	87.7	22.0	22.2	26.3	21.2	14.8	80.5	1951
1952	7.88	7.78	7.45	108	88.7	38.8	23.1	13.0	18.9	13.3	9.75	8.80	28.8	1952
1953	8.88	8.78	8.74	102	87.2	148	144	121	88.0	33.7	38.7	19.0	84.9	1953
1954	18.3	13.4	16.0	88.2	147	187	307	147	88.0	87.8	88.8	41.8	88.8	1954
1955	28.3	28.1	21.3	308	440	276	194	84.0	84.7	48.2	28.8	25.4	137	1955
1956	19.8	18.4	17.1	182	473	388	192	88.2	83.3	37.8	30.7	25.8	126	1956
1957	18.4	12.8	27.8	137	230	80.0	47.8	32.3	28.4	23.3	21.8	17.8	87.4	1957
1958	7.82	8.85	11.4	102	37.8	21.2	17.1	8.10	7.78	8.84	8.85	4.87	20.8	1958
1959	4.88	3.78	8.28	78.0	38.3	28.0	21.8	10.4	8.82	20.3	21.7	13.2	21.0	1959
1960	8.83	10.3	8.88	288	185	101	40.3	18.5	11.1	11.4	8.14	5.48	58.2	1960
1961	5.78	4.28	9.33	44.0	23.3	11.2	8.28	3.50	4.43	8.78	4.60	2.77	10.4	1961
1962	2.78	2.82	2.88	72.3	87.8	30.2	18.7	28.4	17.8	9.37	8.81	8.40	22.0	1962
1963	1.84	1.88	8.11	83.0	38.1	88.8	32.7	17.7	11.7	10.7	7.37	8.08	23.8	1963
1964	8.48	8.83	7.83	78.3	88.3	31.1	18.8	12.0	11.8	12.0	8.27	4.88	23.8	1964
1965	8.28	8.70	8.81	141	118	78.8	87.8	30.8	27.3	32.8	18.7	18.0	44.4	1965
1966	11.0	11.4	38.3	183	188	88.2	41.8	18.8	15.0	8.58	7.33	8.48	48.8	1966
1967	8.14	8.04	8.38	108	188	88.8	21.2	8.78	8.78	7.02	8.81	7.71	34.7	1967
1968	7.81	7.42	18.8	88.8	32.2	18.7	12.0	17.8	21.3	14.8	11.2	8.31	21.0	1968
1969	4.38	8.02	8.38	288	332	138	88.3	81.8	22.2	18.3	18.4	17.7	82.8	1969
1970	18.8	18.1	18.0	118	284	183	118	88.8	24.8	28.3	24.4	18.0	73.2	1970
1971	18.3	14.8	16.8	93.0	134	113	78.8	42.8	18.3	27.3	34.4	28.7	80.7	1971
1972	24.8	28.8	43.0	88.8	217	110	88.8	23.1	18.1	22.2	23.8	21.8	88.7	1972
1973	23.3	19.4	34.2	30.8	18.8	23.4	18.0	14.4	13.2	28.3	18.1	17.8	20.7	1973
1974	18.2	18.8	18.7	147	383	318	141	73.0	44.7	38.4	38.2	38.8	108	1974
1975	32.3	28.8	28.8	82.8	248	247	188	88.4	72.0	102	76.3	84.4	101	1975
1976	46.8	38.8	34.7	312	388	248	150	84.8	48.0	30.8	22.4	18.4	118	1976
1977	21.3	18.2	18.2	38.8	22.8	17.2	18.4	18.8	17.8	18.8	18.7	17.8	18.8	1977
1978	18.8	18.8	22.2	88.4	87.8	28.8	18.8	14.8	14.3	18.8	14.2	13.8	38.0	1978
1979	12.0	13.4	18.4	110	238	234	117	38.8	18.7	18.3	18.4	18.8	70.8	1979
1980	23.0	20.0	18.8	88.8	23.8	11.8	11.1	14.2	18.8	18.2	18.3	17.8	20.7	1980
1981	18.3	13.3	28.8	37.1	18.8	18.4	13.8	8.88	17.3	18.3	18.8	13.8	17.0	1981
1982	13.4	12.8	13.3	87.8	110	71.1	31.0	14.8	18.1	31.3	32.4	21.1	38.2	1982
1983	22.3	21.8	37.3	138	178	81.1	37.8	38.8	31.2	24.8	28.8	18.3	88.1	1983
1984	20.8	17.4	18.7	33.4	30.4	43.8	28.4	13.8	8.44	18.8	18.0	17.8	21.8	1984
MEAN	10.8	9.71	13.8	118	148	88.3	88.7	35.2	22.8	21.9	18.1	13.2	47.2	MEAN

LOCATION - LAT 49 52 09 N DRAINAGE AREA, 183 000 km²
LONG 97 24 10 W REGULATED

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	388 ON MAY 8	---	---	1913
1914	---	186 ON MAY 18	2.49 B ON DEC 31	1 270 000	1914
1915	---	47.8 ON APR 27	3.23 B ON JAN 1	415 000	1915
1916	---	914 ON APR 27 *	5.86 ON FEB 11	2 070 000	1916
1917	---	218 ON MAY 31	3.43 B ON DEC 31	1 510 000	1917
1918	---	128 ON APR 8	2.49 B ON JAN 20	884 000	1918
1919	---	218 ON APR 17	5.86 B ON FEB 26	928 000	1919
1920	---	278 ON MAY 1	4.45 B ON FEB 26	1 500 000	1920
1921	---	174 ON APR 21	3.40 B ON FEB 26	1 020 000	1921
1922	---	567 ON MAY 18	8.21 B ON FEB 21	2 880 000	1922
1923	---	592 ON MAY 16	8.86 B ON MAR 31	3 370 000	1923
1924	---	300 ON APR 28	10.4 B ON DEC 31	1 330 000	1924
1925	---	388 ON APR 7	7.11 B ON FEB 26	2 180 000	1925
1926	---	117 ON APR 30	7.36 B ON FEB 9	802 000	1926
1927	---	518 ON MAY 15	10.0 B ON MAR 3	3 880 000	1927
1928	---	380 ON APR 24	8.86 B ON DEC 31	2 450 000	1928
1929	---	114 ON MAY 2	5.36 B ON NOV 21	702 000	1929
1930	---	278 ON APR 13	4.67 B ON FEB 14	823 000	1930
1931	---	84.4 ON APR 13	4.25 B ON NOV 25	358 000	1931
1932	---	191 ON APR 18	2.82 B ON FEB 22	534 000	1932
1933	---	202 ON APR 19	3.43 B ON FEB 16	919 000	1933
1934	---	217 ON APR 19	3.31 B ON DEC 30	774 000	1934
1935	---	288 ON JUL 8	2.83 B ON FEB 6	1 080 000	1935
1936	---	473 ON APR 22	0.5898 ON DEC 11 *	1 230 000	1936
1937	---	84.9B ON APR 20	2.15 B ON DEC 31	385 000	1937
1938	---	148 B ON APR 10	2.21 B ON JAN 1	586 000	1938
1939	---	92.3B ON APR 18	3.54 B ON DEC 6	416 000	1939
1940	---	60.9 ON APR 25	1.27 B ON JAN 13	230 000	1940
1941	---	284 B ON APR 15	2.89 B ON JAN 23	518 000	1941
1942	---	317 ON APR 18	0.7148 ON JAN 13	1 180 000	1942
1943	---	289 ON APR 15	4.11 B ON DEC 31	1 700 000	1943
1944	---	118 ON JUL 13	2.86 B ON JAN 15	888 000	1944
1945	---	139 ON APR 12	4.39 B ON DEC 19	811 000	1945
1946	---	208 ON APR 14	4.33 B ON MAR 12	898 000	1946
1947	---	320 ON JUL 13	4.22 B ON JAN 11	2 220 000	1947
1948	---	473 ON MAY 18	7.84 B ON MAR 14	2 430 000	1948
1949	---	430 ON APR 18	5.21 B ON MAR 7	1 810 000	1949
1950	---	281 ON MAY 12	3.84 B ON MAR 8	2 140 000	1950
1951	---	256 ON APR 20	7.46 B ON DEC 31	1 810 000	1951
1952	---	230 B ON APR 17	6.89 B ON DEC 1	838 000	1952
1953	---	232 B ON APR 13	4.82 B ON JAN 28	2 080 000	1953
1954	---	382 ON JUL 18	12.0 B ON FEB 11	3 130 000	1954
1955	484 AT 01:00 CST ON MAY 24	481 ON MAY 23	12.3 B ON NOV 9	4 330 000	1955
1956	569 AT 18:00 CST ON APR 26	564 ON APR 26	14.9 B ON FEB 21	3 980 000	1956
1957	249 AT 11:00 CST ON MAY 12	248 ON MAY 12	10.5 B ON DEC 31	1 810 000	1957
1958	2838 AT 21:00 CST ON APR 8	322 B ON APR 8	2.88 B ON DEC 17	848 000	1958
1959	1818 AT 18:00 CST ON APR 14	148 B ON APR 14	3.46 B ON FEB 10	882 000	1959
1960	586 AT 17:00 CST ON APR 18	585 ON APR 18	4.82 B ON DEC 29	1 780 000	1960
1961	1408 AT 13:30 CST ON APR 18	81.4B ON APR 18	1.96 B ON DEC 21	328 000	1961
1962	430 AT 01:00 CST ON APR 24	306 ON APR 24	2.36 B ON MAR 21	893 000	1962
1963	247 AT 06:30 CST ON APR 8	204 ON APR 8	1.13 B ON JAN 27	754 000	1963
1964	277 AT 02:00 CST ON APR 18	228 ON APR 18	4.22 B ON DEC 20	742 000	1964
1965	351 AT 02:00 CST ON APR 19	345 ON APR 19	4.50 B ON JAN 4	1 400 000	1965
1966	3148 AT 05:00 CST ON APR 14	292 B ON APR 14	5.69 B ON DEC 9	1 530 000	1966
1967	248 AT 20:00 CST ON APR 20	238 ON APR 25	3.68 B ON NOV 6	1 080 000	1967
1968	2048 AT 14:10 CST ON APR 11	183 B ON APR 10	4.39 B ON DEC 31	884 000	1968
1969	697 AT 03:54 CST ON APR 26	686 ON APR 26	3.78 B ON JAN 11	2 810 000	1969
1970	340 AT 08:00 CST ON MAY 21	340 ON MAY 20	8.28 B ON NOV 28	2 310 000	1970
1971	180 AT 10:00 CST ON APR 20	158 ON APR 20	12.6 B ON FEB 8	1 800 000	1971
1972	---	240 ON MAY 18	14.0 ON SEP 23	1 780 000	1972
1973	---	82.0B ON APR 5	6.80 ON SEP 7	852 000	1973
1974	422 AT 23:35 CST ON APR 24	418 ON APR 25	14.9 B ON FEB 1	3 300 000	1974
1975	271 AT 04:00 CST ON MAY 25	271 ON MAY 25	25.5 B ON DEC 3	3 300 000	1975
1976	614 AT 08:00 CST ON APR 26 *	614 ON APR 26	12.5 B ON DEC 4	3 780 000	1976
1977	---	58.3B ON APR 13	8.66 ON AUG 27	817 000	1977
1978	---	142 B ON APR 21	7.53 B ON NOV 19	882 000	1978
1979	3088 AT 14:15 CST ON APR 24	270 B ON APR 24	9.03 B ON NOV 12	2 230 000	1979
1980	1428 AT 18:32 CST ON APR 17	99.0B ON APR 17	8.71 B ON NOV 18	854 000	1980
1981	---	81.0B ON APR 2	8.01 ON AUG 23	837 000	1981
1982	284 AT 04:35 CST ON APR 18	314 B ON APR 18	11.2 ON SEP 13	1 140 000	1982
1983	226 AT 11:16 CST ON APR 19	213 ON APR 18	12.1 B ON NOV 27	1 740 000	1983
1984	148 AT 21:32 CST ON APR 7	98.3 ON APR 8	8.71 ON SEP 2	893 000	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 490 000	MEAN

ASSINIBOINE RIVER AT ST. JAMES - STATION NO. 05MJ002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	178	188	80.2	80.3	87.8	130	---	---	---	1912
1913	---	---	---	283	337	141	118	113	---	---	---	---	---	1913
MEAN	---	---	---	283	288	188	88.1	88.7	87.8	130	---	---	---	MEAN

LOCATION - LAT 49 53 30 N DRAINAGE AREA, 184 000 km^2
LONG 97 11 30 W NATURAL FLOW

ASSINIBOINE RIVER NEAR BRANDON - STATION NO. 05MM013

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	12.4	12.4	17.3	147	210	177	91.6	54.2	36.0	31.8	28.8	26.6	70.7	1974
1975	25.0	24.6	23.6	78.7	198	128	75.6	57.1	63.3	59.5	48.1	33.3	67.6	1975
1976	28.9	27.3	16.2	338	227	122	66.0	52.6	22.3	21.2	20.2	17.7	82.2	1976
1977	18.0	13.7	11.7	18.2	14.5	11.0	12.6	8.01	6.75	12.6	15.7	16.6	13.6	1977
1978	18.8	17.2	20.6	50.6	26.3	11.6	8.67	4.11	5.88	7.38	13.2	11.3	16.3	1978
1979	11.0	11.0	16.7	108	214	120	60.0	14.3	9.51	11.1	14.8	17.8	50.8	1979
1980	17.8	17.1	17.2	43.6	13.2	7.81	8.30	8.76	10.8	11.3	14.5	12.9	15.2	1980
1981	11.8	12.6	18.8	13.5	8.38	8.84	4.88	3.72	4.45	10.3	14.6	12.6	10.4	1981
1982	11.4	11.7	8.85	58.2	43.0	26.7	8.80	8.40	4.44	8.88	15.1	16.3	16.0	1982
1983	19.3	18.4	20.2	98.7	97.7	58.6	24.9	30.6	11.1	13.4	21.8	18.5	36.0	1983
1984	16.8	16.2	14.2	17.3	10.8	12.9	21.1	5.16	4.83	8.17	16.0	16.1	13.8	1984
MEAN	17.4	16.8	17.3	87.4	98.8	62.1	37.3	22.8	16.5	17.8	20.8	16.3	36.9	MEAN

LOCATION - LAT 49 52 20 N DRAINAGE AREA, 85 700 km²
LONG 100 06 10 W REGULATED

ASSINIBOINE RIVER NEAR BRANDON - STATION NO. 05MM013

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	309 A ON APR 22	12.2 B ON FEB 22	2 230 000	1974
1975	282 AT 10:30 CST ON MAY 1 *	281 ON MAY 1	17.5 B ON APR 12	2 140 000	1975
1976	---	817 ON APR 18 *	16.2 B ON MAR 29	2 600 000	1976
1977	20.8 AT 23:31 CST ON APR 14	20.7 ON APR 14	7.26 ON SEP 4	428 000	1977
1978	88.3 AT 20:50 CST ON APR 18	83.4 ON APR 18	3.14 ON AUG 21	813 000	1978
1979	---	314 B ON APR 27	7.57 ON AUG 27	1 610 000	1979
1980	103 B AT 08:52 CST ON APR 18	95.18 ON APR 18	6.78 B ON JUN 26	482 000	1980
1981	---	26.18 ON MAR 4	2.36 ON AUG 10 *	327 000	1981
1982	117 AT 12:40 CST ON APR 22	108 ON APR 22	3.65 ON SEP 26	868 000	1982
1983	191 AT 10:45 CST ON APR 25	190 ON APR 25	6.31 ON SEP 14	1 130 000	1983
1984	36.58 AT 18:00 CST ON APR 2	35.08 ON APR 2	3.09 ON SEP 8	440 000	1984
				1 130 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	9.45	36.6	21.2	8.42	4.80	4.26	5.08	8.12	---	---	---	1981
1982	---	---	3.85	88.4	86.7	26.8	14.5	15.1	10.8	10.2	---	---	---	1982
1983	---	---	18.5	86.5	32.6	62.5	27.8	14.1	11.1	10.4	---	---	---	1983
1984	---	---	8.66	63.5	87.9	28.1	19.9	9.82	13.8	10.5	---	---	---	1984
1985	---	---	5.85	184	107	76.0	61.3	30.0	33.5	34.8	---	---	---	1985
1986	---	---	36.5	185	178	86.9	40.8	21.0	12.2	9.34	---	---	---	1986
1987	---	---	7.75	105	182	83.8	17.6	8.09	8.30	7.20	7.88	7.35	---	1987
1988	7.88	7.58	24.0	79.6	38.0	16.1	11.3	15.1	20.8	15.3	12.7	7.45	20.8	1988
1989	8.16	7.34	8.99	338	282	130	81.8	44.3	19.4	16.0	16.0	17.8	82.8	1989
1970	18.3	18.8	17.2	158	318	193	118	88.8	24.1	19.7	28.8	19.0	81.8	1970
1971	18.3	18.8	17.3	108	133	123	79.0	41.8	18.8	24.7	38.8	28.1	63.8	1971
1972	25.3	25.1	88.3	201	333	107	49.1	18.8	14.8	18.1	22.8	21.8	88.1	1972
1973	22.3	18.8	25.7	27.4	23.0	25.8	21.1	14.1	18.1	36.8	19.2	18.8	21.4	1973
1974	16.8	16.8	22.0	324	484	348	163	74.3	48.0	43.8	41.7	36.8	132	1974
1975	31.2	27.8	26.8	137	449	333	181	94.8	85.0	104	74.7	55.5	133	1975
1976	44.8	38.1	35.8	908	868	288	158	82.6	40.0	38.5	22.8	19.8	184	1976
1977	21.7	18.8	20.8	28.8	27.5	18.5	23.5	16.2	17.0	18.4	17.8	20.8	21.1	1977
1978	18.1	18.7	25.0	87.5	63.4	25.5	30.1	13.8	13.4	11.7	19.3	13.0	27.3	1978
1979	17.0	17.4	24.8	233	398	281	118	30.0	13.8	13.4	21.1	18.4 R	88.1R	1979
1980	18.2	18.5	18.8	51.3	21.0	14.4	14.0	17.8	16.3	18.4	22.3	18.8	20.7	1980
1981	17.0	17.8	30.8	24.0	17.0	18.7	11.0	10.0	11.7	15.8	16.3	15.0	17.0	1981
1982	15.8	14.3	13.4	118	108	58.8	18.8	13.8	13.2	18.4	26.1	21.8	38.2	1982
1983	24.8	22.0	32.8	228	187	88.0	37.7	43.8	28.0	26.3	33.8	30.8	83.8	1983
1984	21.3	18.7	20.3	31.8	38.8	38.2	21.0	10.8	8.11	18.8	17.1	22.7	22.8	1984
MEAN	20.1	18.7	21.8	188	187	99.8	88.0	28.3	20.8	22.1	28.7	20.8 R	83.7	MEAN

LOCATION - LAT 48 41 84 N DRAINAGE AREA, 152 000 km² R - REVISED SINCE JAN 1980
LONG 98 83 88 W REGULATED

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1951	---	57.38 ON APR 10	---	---	1951
1952	---	184 B ON APR 20	---	---	1952
1953	---	107 B ON APR 6	---	---	1953
1954	---	144 E ON APR 20	---	---	1954
1955	---	375 B ON APR 14	---	---	1955
1956	---	224 ON MAY 9	---	---	1956
1957	---	218 B ON APR 22	---	---	1957
1958	---	105 ON APR 13	0.748 B ON DEC 31	850 000	1958
1959	---	694 A ON APR 24	5.388 ON JAN 30 *	2 810 000	1959
1970	---	501 ON APR 28	14.7 B ON MAR 2	2 880 000	1970
1971	195 AT 23:00 CST ON APR 17	183 ON APR 18	10.8 B ON NOV 6	1 880 000	1971
1972	---	314 ON APR 21	13.3 ON SEP 17	2 080 000	1972
1973	---	58.48 ON APR 1	10.8 ON AUG 28	875 000	1973
1974	828 AT 05:05 CST ON APR 22	805 ON APR 22	13.5 B ON JAN 27	4 170 000	1974
1975	515 R AT 20:00 CST ON MAY 1	488 E ON MAY 1	24.6 B ON FEB 15	4 200 000	1975
1976	1 470 AT 02:00 CST ON APR 20 *	1 460 ON APR 20 *	12.7 B ON NOV 30	5 830 000	1976
1977	80.6 AT 09:45 CST ON JUL 13	42.2 ON JUL 13	10.4 B ON NOV 22	885 000	1977
1978	---	194 B ON APR 10	10.9 ON OCT 23	862 000	1978
1979	861 A AT 10:45 CST ON APR 24	548 A ON APR 24	10.2 ON OCT 8	3 100 000R	1979
1980	89.9 AT 18:00 CST ON APR 17	87.6 ON APR 17	8.218 ON DEC 21	858 000	1980
1981	---	41.88 ON MAR 22	6.20 ON AUG 22	538 000	1981
1982	---	239 A ON APR 16	10.6 B ON MAR 23	1 140 000	1982
1983	---	334 A ON APR 11	13.8 B ON DEC 19	2 020 000	1983
1984	84.18 AT 15:18 CST ON APR 6	55.18 ON APR 6	6.94 ON AUG 27	710 000	1984
				2 010 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

ASSINIBOINE RIVER NEAR MINIOTA - STATION NO. 05ME005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1951	---	---	2.72	10.3	8.23	3.45	1.36	0.488	0.854	1.86	---	---	---	1951
1952	---	---	2.02	31.3	32.6	8.83	3.69	3.00	3.59	3.85	---	---	---	1952
1953	---	---	5.30	27.3	15.5	17.9	13.6	5.02	5.06	3.99	---	---	---	1953
1954	---	---	2.91	44.4	37.7	10.1	5.02	3.20	2.98	3.81	---	---	---	1954
1955	---	---	1.75	73.5	44.7	43.4	15.1	7.05	7.78	8.08	---	---	---	1955
1956	---	---	3.58	103	80.9	28.3	23.6	10.2	4.85	3.06	---	---	---	1956
1957	---	---	3.31	48.8	84.4	27.5	8.49	3.07	1.90	3.18	---	---	---	1957
1958	---	---	8.22	42.9	12.0	8.41	4.10	4.98	2.54	1.87	---	---	---	1958
1959	---	---	3.87	92.0	87.1	29.4	25.5	8.51	7.00	9.82	---	---	---	1959
1970	---	---	9.22	80.0	108	51.0	36.9	23.4	9.39	12.1	---	---	---	1970
1971	---	---	9.85	80.3	85.7	43.8	22.4	13.3	4.46	13.1	---	---	---	1971
1972	---	---	22.4	80.2	85.7	58.2	8.52	5.88	6.53	10.1	---	---	---	1972
1973	---	---	11.7	8.28	8.70	8.89	8.86	4.17	7.89	11.6	12.3	12.2	---	1973
1974	12.9	13.1	19.7	97.6	151	135	80.7	46.6	33.2	30.1	29.6	27.0	68.5	1974
1975	24.4	23.0	23.5	85.7	144	87.1	85.0	47.0	35.9	30.2	24.9	22.0	61.3	1975
1976	28.6	23.5	14.6	230	147	102	77.3	44.2	19.5	20.5	19.3	18.6	61.8	1976
1977	15.3	10.8	11.2	11.0	8.49	7.20	8.64	7.85	8.87	8.13	17.0	14.3	10.5	1977
1978	12.8	14.5	18.4	35.6	13.9	7.03	4.82	3.74	4.58	7.58	17.0	10.4	12.4	1978
1979	8.83	10.1	27.7	105	138	88.0	50.0	9.38	8.79	11.2	13.3	15.3	40.5	1979
1980	17.4	15.3	15.3	33.4	7.08	6.11	7.19	8.81	6.41	8.89	15.5	13.8	12.7	1980
1981	8.38	10.8	10.8	7.95	3.75	3.98	1.58	1.05	3.38	8.24	13.3	9.46	7.04	1981
1982	10.4	8.40	8.48	31.4	32.8	20.8	8.19	4.77	3.81	10.5	13.8	14.2	13.5	1982
1983	15.7	15.8	21.1	58.4	74.5	47.1	22.3	27.4	8.53	13.9	21.4	17.0	26.8	1983
1984	16.7	15.0	17.1	12.7	8.61	11.2	14.5	3.64	4.28	8.02	18.1	17.3	12.5	1984
MEAN	15.6	14.5	11.4	86.4	87.3	35.9	21.5	12.3	8.29	10.2	18.7	18.7	27.9	MEAN

LOCATION - LAT 50 06 39 N
LONG 101 02 06 W
DRAINAGE AREA, 78 100 km^2
REGULATED

ASSINIBOINE RIVER NEAR BRANDON - STATION NO. 05MH013

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	12.4	12.4	17.3	147	210	177	91.8	54.2	38.0	31.8	28.9	26.8	70.7	1974
1975	25.0	24.8	23.8	78.7	198	128	75.8	57.1	63.3	59.5	46.1	33.3	67.6	1975
1976	28.8	27.3	16.2	336	227	122	86.0	52.8	22.3	21.2	20.2	17.7	82.2	1976
1977	18.0	13.7	11.7	15.2	14.5	11.0	13.6	9.01	6.75	12.5	15.7	19.6	13.6	1977
1978	19.8	17.2	20.5	80.8	28.3	11.8	8.87	4.11	5.68	7.39	13.2	11.3	18.3	1978
1979	11.0	11.0	18.7	108	214	120	80.0	14.3	9.51	11.1	14.8	17.8	80.8	1979
1980	17.8	17.1	17.3	43.6	13.2	7.81	8.30	8.76	10.6	11.3	14.6	12.8	15.2	1980
1981	11.6	12.6	18.8	13.5	8.39	8.84	4.98	3.72	4.45	10.2	14.8	12.5	10.4	1981
1982	11.4	11.7	8.99	58.2	43.0	28.7	6.80	8.40	4.44	8.88	15.1	18.3	18.0	1982
1983	19.3	18.4	20.2	88.7	87.7	58.6	24.8	30.6	11.1	13.4	21.8	18.6	36.0	1983
1984	18.8	18.2	16.2	17.3	10.6	12.8	21.1	8.16	4.83	8.17	16.0	18.1	13.8	1984
MEAN	17.4	16.6	17.3	87.4	88.6	82.1	37.3	22.8	18.5	17.8	20.8	18.3	38.8	MEAN

LOCATION - LAT 49 52 20 N
LONG 100 08 10 W
DRAINAGE AREA, 88 700 km²
REGULATED

ASSINIBOINE RIVER NEAR BRANDON - STATION NO. 05MH013

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	308 A ON APR 22	12.2 B ON FEB 22	2 230 000	1974
1975	282 AT 18:36 CST ON MAY 1 *	281 ON MAY 1	17.5 B ON APR 12	2 140 000	1975
1976	---	617 ON APR 16 *	16.2 B ON MAR 29	2 600 000	1976
1977	20.9 AT 23:31 CST ON APR 14	20.7 ON APR 14	7.28 ON SEP 4	428 000	1977
1978	86.3 AT 20:50 CST ON APR 18	83.4 ON APR 18	3.14 ON AUG 21	512 000	1978
1979	---	314 B ON APR 27	7.57 ON AUG 27	1 810 000	1979
1980	103 B AT 08:52 CST ON APR 15	95.10 ON APR 15	6.76 ON JUN 28	482 000	1980
1981	---	28.10 ON MAR 4	2.38 ON AUG 10 *	327 000	1981
1982	117 AT 12:40 CST ON APR 22	108 ON APR 22	3.65 ON SEP 28	566 000	1982
1983	181 AT 10:45 CST ON APR 26	180 ON APR 26	8.31 ON SEP 14	1 130 000	1983
1984	36.88 AT 18:00 CST ON APR 2	35.08 ON APR 2	3.09 ON SEP 8	440 000	1984
				1 130 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	9.45	35.6	21.2	8.42	4.80	4.28	5.08	8.12	---	---	---	1981
1982	---	---	3.88	69.4	58.7	26.8	14.5	15.1	10.8	10.2	---	---	---	1982
1983	---	---	15.8	88.8	32.8	52.6	27.6	14.1	11.1	10.4	---	---	---	1983
1984	---	---	8.58	83.3	87.8	28.1	19.8	8.82	13.9	10.6	---	---	---	1984
1985	---	---	5.85	154	107	78.0	61.3	30.0	33.5	34.8	---	---	---	1985
1986	---	---	39.5	155	178	86.8	40.8	21.0	15.2	8.34	---	---	---	1986
1987	---	---	7.75	105	182	63.8	17.6	8.08	6.30	7.20	7.88	7.28	---	1987
1988	7.85	7.58	24.0	78.6	28.0	18.1	11.3	18.1	20.8	18.3	12.7	7.48	20.8	1988
1989	8.18	7.34	8.89	338	292	130	81.8	44.3	19.4	18.0	18.0	17.8	82.8	1989
1970	18.3	18.8	17.3	158	318	193	118	58.8	24.1	19.7	28.8	18.0	81.8	1970
1971	18.3	18.8	17.3	108	133	123	78.0	41.8	18.8	24.7	38.8	28.1	53.8	1971
1972	28.3	28.1	88.3	201	223	107	48.1	18.8	14.8	18.1	22.8	21.8	88.1	1972
1973	22.2	18.8	28.7	27.4	23.0	28.8	21.1	14.1	18.1	28.8	18.2	18.8	21.4	1973
1974	18.8	18.8	22.0	324	484	348	183	74.2	48.0	43.8	41.7	38.8	132	1974
1975	31.2	27.8	28.8	127	448	333	181	84.8	85.0	104	74.7	58.8	133	1975
1976	44.8	38.1	38.8	908	588	288	158	82.8	40.0	28.8	22.8	18.8	184	1976
1977	21.7	18.8	20.8	38.8	27.8	18.8	23.8	18.2	17.0	18.4	17.8	20.8	21.1	1977
1978	18.2	18.7	28.0	87.8	63.4	32.8	20.1	13.8	13.4	11.7	18.3	13.0	27.3	1978
1979	17.8	17.4	24.8	233	388	281	118	38.0	13.8	13.4	21.1	16.4 R	88.1R	1979
1980	18.2	18.8	18.8	81.3	31.0	14.4	14.0	17.8	18.2	18.4	22.3	18.8	38.7	1980
1981	17.0	17.8	38.8	24.0	17.0	18.7	11.8	10.0	11.7	18.8	18.3	18.0	17.0	1981
1982	18.8	18.3	12.4	118	188	88.8	18.8	13.8	12.2	18.4	28.1	21.8	38.2	1982
1983	24.8	22.8	32.8	228	187	88.8	37.7	43.8	28.8	28.2	33.8	38.8	83.8	1983
1984	21.2	18.7	38.3	31.8	38.8	28.2	31.8	18.8	8.11	18.8	17.1	22.7	22.8	1984
MEAN	28.1	18.7	21.8	188	187	88.8	88.8	28.3	28.8	22.1	28.7	28.8 R	83.7	MEAN

LOCATION - LAT 48 41 84 N
LONG 88 83 88 W
DRAINAGE AREA, 182 000 km²
REGULATED

R - REVISED SINCE JAN 1988

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1951	---	57.28 ON APR 10	---	---	1951
1952	---	184 B ON APR 20	---	---	1952
1953	---	107 B ON APR 6	---	---	1953
1954	---	144 E ON APR 20	---	---	1954
1955	---	378 B ON APR 14	---	---	1955
1956	---	224 ON MAY 9	---	---	1956
1957	---	219 B ON APR 22	---	---	1957
1958	---	105 ON APR 13	0.748 E ON DEC 31	550 000	1958
1959	---	694 A ON APR 24	5.368 ON JAN 30 *	2 810 000	1959
1970	---	501 ON APR 28	14.7 B ON MAR 2	2 580 000	1970
1971	195 AT 23:00 CST ON APR 17	193 ON APR 18	10.6 B ON NOV 6	1 680 000	1971
1972	---	314 ON APR 21	13.3 ON SEP 17	2 080 000	1972
1973	---	88.48 ON APR 1	10.8 ON AUG 28	675 000	1973
1974	928 AT 05:05 CST ON APR 22	909 ON APR 22	13.5 B ON JAN 27	4 170 000	1974
1975	515 R AT 20:00 CST ON MAY 1	498 E ON MAY 1	24.6 B ON FEB 18	4 200 000	1975
1976	1 470 AT 02:00 CST ON APR 20 *	1 480 ON APR 20 *	12.7 B ON NOV 30	5 830 000	1976
1977	80.6 AT 08:45 CST ON JUL 13	42.2 ON JUL 13	10.4 B ON NOV 23	888 000	1977
1978	---	194 B ON APR 10	10.9 ON OCT 23	862 000	1978
1979	581 A AT 10:45 CST ON APR 24	548 A ON APR 24	10.2 ON OCT 6	3 100 000R	1979
1980	89.8 AT 18:00 CST ON APR 17	87.5 ON APR 17	8.218 ON DEC 21	858 000	1980
1981	---	41.88 ON MAR 22	8.20 ON AUG 22	538 000	1981
1982	---	239 A ON APR 16	10.6 B ON MAR 23	1 140 000	1982
1983	---	334 A ON APR 11	13.6 B ON DEC 19	2 020 000	1983
1984	84.18 AT 15:15 CST ON APR 8	58.18 ON APR 8	8.84 ON AUG 27	710 000	1984
				2 010 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

ASSINIBOINE RIVER NEAR MINIOTA - STATION NO. 05MH004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1951	---	---	2.72	10.3	8.23	3.45	1.36	0.486	0.854	1.96	---	---	---	1951
1952	---	---	2.02	31.3	32.6	6.83	3.89	3.00	3.59	3.85	---	---	---	1952
1953	---	---	5.30	27.3	15.5	17.9	13.6	5.92	5.05	3.99	---	---	---	1953
1954	---	---	2.81	44.4	37.7	10.1	6.02	3.20	2.96	3.81	---	---	---	1954
1955	---	---	1.76	73.5	44.7	43.4	15.1	7.05	7.79	6.08	---	---	---	1955
1956	---	---	3.56	103	60.9	26.3	23.6	10.2	4.85	2.05	---	---	---	1956
1957	---	---	3.31	48.6	84.4	27.5	8.49	3.07	1.90	3.19	---	---	---	1957
1958	---	---	8.22	42.9	12.0	6.41	4.10	4.85	2.54	1.87	---	---	---	1958
1959	---	---	3.57	92.0	57.1	29.4	26.5	8.51	7.00	8.82	---	---	---	1959
1970	---	---	9.22	80.0	108	51.0	38.9	23.4	9.39	12.1	---	---	---	1970
1971	---	---	9.85	50.3	85.7	43.6	22.4	13.3	4.46	13.1	---	---	---	1971
1972	---	---	22.4	60.2	95.7	58.2	8.52	5.85	5.53	10.1	---	---	---	1972
1973	---	---	11.7	8.26	8.70	5.88	5.86	4.17	7.88	11.6	12.3	12.2	---	1973
1974	12.9	13.1	19.7	87.6	151	135	80.7	48.6	33.2	30.1	29.6	27.0	58.5	1974
1975	24.4	23.0	23.5	85.7	144	97.1	85.0	47.0	35.9	30.2	34.9	32.0	51.3	1975
1976	28.6	23.5	14.6	230	147	102	77.3	44.2	19.5	20.5	19.3	16.8	61.8	1976
1977	15.3	10.8	11.2	11.0	8.49	7.20	8.64	7.85	5.67	8.13	17.0	14.3	10.5	1977
1978	12.8	14.5	18.4	35.6	13.9	7.03	4.82	2.74	4.58	7.58	17.0	10.4	12.4	1978
1979	8.83	10.1	27.7	105	136	89.0	80.0	9.36	8.78	11.2	13.3	16.3	40.5	1979
1980	17.6	15.3	18.3	33.4	7.08	6.11	7.19	6.81	6.41	8.89	15.5	13.6	12.7	1980
1981	9.36	10.6	10.6	7.05	3.75	3.85	1.69	1.85	3.38	8.24	13.3	9.48	7.04	1981
1982	10.4	8.40	8.48	31.4	32.6	20.9	6.19	4.77	3.61	10.6	13.6	14.2	13.8	1982
1983	16.7	15.6	21.1	58.4	74.5	47.1	22.3	27.6	9.53	13.8	21.4	17.0	28.8	1983
1984	16.7	15.0	17.1	12.7	6.61	11.2	18.5	3.84	4.26	9.02	18.1	17.3	12.5	1984
MEAN	15.6	14.5	11.4	58.4	57.3	35.9	21.5	12.3	8.39	10.2	18.7	16.7	27.9	MEAN

LOCATION - LAT 50 08 38 N
LONG 101 02 08 W
DRAINAGE AREA, 78 100 km^2
REGULATED

ASSINIBOINE RIVER NEAR MINIOTA - STATION NO. 05MD005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---		---	---	1981
1982	---	12.58 ON APR 8	---	---	1982
1983	---	88.6 ON APR 28	---	---	1983
1984	---	38.0 ON JUN 11	---	---	1984
		78.98 ON APR 17	---	---	
1985	---		---	---	1985
1986	---	180 B ON APR 20	---	---	1986
1987	---	148 ON APR 28	---	---	1987
1988	---	112 ON MAY 13	---	---	1988
1989	---	64.6 ON APR 15	---	---	1989
		278 ON APR 18	---	---	
1970	---	142 ON MAY 3	---	---	1970
1971	---	112 B ON APR 14	---	---	1971
1972	---	173 B ON APR 19	---	---	1972
1973	15.18 AT 17:47 CST ON MAR 31	14.88 ON MAR 31	---	---	1973
1974	273 AT 11:52 CST ON APR 22	270 ON APR 22	12.5 B ON FEB 2	1 780 000	1974
1975	176 AT 17:15 CST ON MAY 21	174 ON MAY 21	12.7 B ON APR 11	1 820 000	1975
1976	462 AT 23:08 CST ON APR 11 *	447 ON APR 12 *	13.4 B ON MAR 4	1 950 000	1976
1977	22.8 AT 08:00 CST ON NOV 10	22.8 ON NOV 8	4.78 ON JUL 28	331 000	1977
1978	---	81.88 ON APR 10	2.38 ON AUG 14	390 000	1978
1979	278 AT 14:42 CST ON APR 24	264 ON APR 24	8.15 ON AUG 23	1 280 000	1979
1980	---	88.28 ON APR 11	3.80 ON MAY 26	401 000	1980
1981	17.4 AT 14:13 CST ON APR 1	17.0 ON APR 2	0.895 ON JUL 26 *	222 000	1981
1982	---	87.38 ON APR 15	3.68 ON SEP 7	426 000	1982
1983	148 AT 22:06 CST ON APR 24	144 ON APR 24	7.83 ON SEP 10	908 000	1983
1984	31.88 AT 23:83 CST ON MAR 29	31.78 ON MAR 29	2.39 ON AUG 30	385 000	1984
				882 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR PORTAGE LA PRAIRIE - STATION NO. 05MJ003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1923	---	---	---	---	466	186	150	105	48.6	38.6	31.2	---	---	1923
1924	---	---	---	---	127	84.6	84.7	31.2	26.3	26.8	---	---	---	1924
1925	---	---	---	282	196	135	61.4	38.4	18.3	26.9	---	---	---	1925
1926	---	---	---	61.8	89.1	36.3	27.3	14.6	24.6	26.7	20.1	---	---	1926
1927	---	---	---	215	460	268	156	78.2	65.4	58.5	---	---	---	1927
1928	---	---	---	---	161	136	148	84.1	37.4	24.1	---	---	---	1928
1929	---	---	---	---	76.6	84.6	30.1	13.1	8.27	10.8	---	---	---	1929
1930	---	---	---	---	80.3	47.1	31.2	13.6	8.26	---	---	---	---	1930
1952	---	---	---	---	---	---	---	---	---	13.6	11.4	8.27	---	1952
1953	8.97	8.38	8.88	118	104	159	152	122	54.4	32.0	40.6	18.6	58.7	1953
1954	16.8	13.6	16.6	88.7	148	188	321	131	82.3	89.4	72.1	41.0	88.6	1954
1955	27.8	24.8	20.8	342	487	337	181	83.7	56.6	60.6	26.3	26.6	139	1955
1956	18.4	16.4	19.1	228	483	387	203	80.4	58.7	38.0	34.7	24.7	134	1956
1957	18.6	12.3	30.9	138	217	84.0	43.7	28.6	24.0	21.2	23.0	18.7	84.3	1957
1958	8.38	8.88	13.2	88.4	37.4	16.8	14.6	8.87	7.86	10.3	10.7	4.28	19.9	1958
1959	4.15	4.35	10.7	72.6	37.2	23.0	20.0	8.08	8.47	17.6	21.6	10.1	19.9	1959
1960	10.4	10.2	8.18	274	183	97.3	36.6	12.6	8.81	10.0	7.88	4.32	56.2	1960
1961	4.89	5.28	10.7	41.0	23.4	11.4	8.86	3.41	4.82	8.84	8.87	3.19	10.9	1961
1962	3.84	3.84	4.26	86.1	84.6	27.6	12.6	18.6	11.3	8.84	10.1	4.88	19.6	1962
1963	1.67	0.895	4.48	73.6	37.6	87.7	33.0	18.1	11.6	11.0	8.88	5.80	21.8	1963
1964	8.33	8.18	8.86	88.8	82.7	31.0	17.0	8.78	10.8	12.4	8.28	8.32	24.4	1964
1965	8.08	8.20	8.87	144	108	80.6	88.2	30.1	31.0	36.0	18.3	18.7	46.2	1965
1966	13.4	10.8	38.4	164	171	70.1	43.6	22.4	18.8	18.6	8.27	8.88	47.3	1966
1967	8.87	8.83	8.81	88.1	161	88.4	18.1	8.30	8.87	7.73	8.18	8.84	33.8	1967
1968	8.82	7.06	15.0	78.8	31.6	17.6	12.3	18.8	20.8	15.7	13.7	8.60	20.2	1968
1969	4.42	7.02	8.83	336	288	132	88.6	46.6	21.0	18.4	18.1	16.8	83.6	1969
1970	15.6	14.4	18.4	108	266	187	121	88.8	35.3	28.4	27.0	17.1	74.0	1970
1971	16.1	14.8	18.6	86.4	127	116	78.4	44.6	17.8	26.8	34.4	29.6	61.9	1971
1972	28.0	24.6	46.3	84.6	231	107	62.8	32.0	18.7	23.2	23.8	20.3	86.6	1972
1973	33.8	18.2	23.0	28.3	16.3	23.4	20.6	14.1	16.4	21.6	18.4	16.6	20.8	1973
1974	18.1	17.2	30.6	140	343	391	144	71.4	46.8	42.3	40.8	36.6	102	1974
1975	31.3	28.1	28.8	88.0	260	247	168	88.0	76.0	101	72.0	88.6	102	1975
1976	48.4	38.0	34.8	334	387	241	151	63.7	46.2	31.3	22.7	18.2	118	1976
1977	21.7	18.0	18.6	28.0	24.6	16.6	21.6	16.6	17.3	18.8	18.2	20.6	20.6	1977
1978	18.6	18.6	24.6	83.0	86.2	27.7	22.7	16.4	16.3	17.2	18.6	13.8	28.3	1978
1979	14.1	16.6	14.8	83.0	238	226	118	38.8	22.6	18.2	20.7	20.6	71.3	1979
1980	21.6	20.7	20.4	48.6	26.2	12.6	11.4	16.3	18.2	21.4	28.6	21.8	21.6	1980
1981	18.1	16.6	26.6	22.1	16.6	17.1	13.6	11.4	18.8	18.1	17.0	11.6	17.6	1981
1982	14.3	13.4	11.2	106	118	73.6	23.6	18.1	17.4	20.1	24.3	20.6	38.2	1982
1983	23.8	23.6	28.3	140	176	67.7	38.6	40.6	31.8	28.1	30.1	23.6	68.1	1983
1984	21.8	20.7	20.0	30.8	34.8	36.6	30.0	12.8	10.1	18.8	23.6	18.6	22.8	1984
MEAN	15.3	14.3	18.2	138	186	111	76.6	36.8	26.7	27.0	23.4	17.3	83.1	MEAN

LOCATION - LAT 49 56 05 N DRAINAGE AREA, 162 000 km^2
LONG 98 18 48 W REGULATED

ASSINIBOINE RIVER NEAR PORTAGE LA PRAIRIE - STATION NO. 05MJ003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1923	---	626 ON MAY 10	---	---	1923
1924	---	---	---	---	1924
1925	---	334 ON APR 7	---	---	1925
1926	---	121 ON APR 25	---	---	1926
1927	---	578 ON MAY 13	---	---	1927
1928	---	---	---	---	1928
1929	---	121 ON APR 29	---	---	1929
1930	---	---	---	---	1930
1952	---	---	---	---	1952
1953	---	287 ON JUN 7	5.27 B ON JAN 20	3 170 000	1953
1954	---	425 ON JUL 13	11.8 B ON FEB 10	3 140 000	1954
1955	---	529 ON MAY 24	13.0 B ON NOV 18	4 400 000	1955
1956	---	537 B ON APR 21	14.4 B ON JAN 30	4 220 000	1956
1957	---	238 ON MAY 8	10.2 B ON DEC 31	1 710 000	1957
1958	---	166 ON APR 5	2.94 B ON DEC 15	627 000	1958
1959	---	185 B ON APR 10	3.60 B ON JAN 27	627 000	1959
1960	592 AT 15:00 CST ON APR 15	586 ON APR 15	5.37 B ON DEC 5	1 780 000	1960
1961	78.5 AT 13:45 CST ON APR 16	62.3 ON APR 15	2.29 B ON DEC 16	344 000	1961
1962	255 B AT 20:45 CST ON APR 20	198 B ON APR 21	3.37 B ON JAN 30	616 000	1962
1963	147 B ON APR 11	131 B ON APR 10	0.7068 ON JAN 21 *	888 000	1963
1964	---	182 ON APR 21	4.81 B ON JAN 1	772 000	1964
1965	504 B AT 07:30 CST ON APR 18	438 B ON APR 18	4.67 B ON APR 3	1 420 000	1965
1966	---	229 B ON APR 7	4.87 B ON DEC 6	1 490 000	1966
1967	---	223 A ON APR 24	4.64 ON SEP 4	1 070 000	1967
1968	---	102 B ON APR 8	4.62 B ON DEC 28	636 000	1968
1969	651 AT 11:10 CST ON APR 24	626 ON APR 24	3.74 B ON JAN 13	2 630 000	1969
1970	343 AT 07:42 CST ON MAY 19	340 ON MAY 17	13.8 B ON JAN 30	2 330 000	1970
1971	178 AT 18:30 CST ON JUN 18	170 ON JUN 18	12.8 B ON FEB 4	1 640 000	1971
1972	---	242 ON MAY 14	12.5 B ON NOV 17	1 780 000	1972
1973	---	82.08 ON APR 2	8.84 ON AUG 26	659 000	1973
1974	388 B AT 10:00 CST ON APR 22	380 ON APR 23	14.2 B ON JAN 29	3 210 000	1974
1975	276 AT 21:30 CST ON MAY 23	273 ON MAY 23	26.2 B ON JAN 28	3 230 000	1975
1976	682 AT 18:30 CST ON APR 21 *	666 ON APR 21 *	12.1 B ON DEC 2	3 730 000	1976
1977	67.7 AT 19:30 CST ON JUL 14	48.6 ON JUL 15	10.9 ON AUG 25	645 000	1977
1978	---	154 B ON APR 10	10.7 B ON NOV 15	884 000	1978
1979	382 B AT 13:41 CST ON APR 25	326 B ON APR 25	9.68 B ON MAR 12	2 280 000	1979
1980	137 AT 16:26 CST ON APR 14	98.0 ON APR 14	8.68 ON NOV 14	683 000	1980
1981	59.1 AT 17:44 CST ON SEP 14	47.0 ON SEP 14	1.76 B ON DEC 4	563 000	1981
1982	205 AT 08:32 CST ON APR 25	202 ON APR 25	9.98 B ON MAR 11	1 210 000	1982
1983	205 AT 08:25 CST ON APR 26	204 ON APR 25	15.6 B ON NOV 24	1 770 000	1983
1984	88.88 AT 13:21 CST ON APR 8	74.78 ON APR 7	8.67 ON AUG 30	723 000	1984
				1 880 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR ROSSENDALE - STATION NO. 05MJ005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	---	---	308	183	120	58.6	34.8	27.8	27.4	15.8	---	1970
1971	15.1	14.8	21.0	126	136	116	78.2	43.1	18.0	27.0	33.3	25.8	53.8	1971
1972	24.6	25.3	84.8	199	232	105	42.8	22.7	19.0	23.7	34.9	18.7	66.8	1972
MEAN	19.8	19.9	42.8	163	221	136	79.8	41.8	20.8	25.8	28.6	21.2	80.4	MEAN

LOCATION - LAT 49 45 32 N, LONG 98 38 32 W DRAINAGE AREA, 152 000 km^2, REGULATED

ASSINIBOINE RIVER NEAR ROSSENDALE - STATION NO. 05MJ005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	---	---	---	---	1970
1971	---	186 ON APR 18	13.78 ON FEB 3 *	1 700 000	1971
1972	---	326 ON APR 22 *	16.18 ON DEC 28	2 110 000	1972
				1 910 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR RUSSELL - STATION NO. 05MH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	---	1.85	2.63	136	128	52.5	98.5	72.2	29.8	16.8	14.3	6.00	---	1913
1914	2.88	2.88 R	3.81 R	49.2	103	33.5	10.2	3.58	3.34	4.08	3.71	2.09	18.6 R	1914
1915	1.27	1.78	1.84	18.7	7.00	7.28	10.5	4.23	3.36	3.95	3.88	2.12	5.31	1915
1916	1.42	1.42	1.27	40.8	23.8	51.5	26.4	11.1	7.55	9.88	9.37	3.18	15.5	1916
1917	1.31	1.07	1.47	28.2	112	31.2	42.4	10.8	7.80	4.88	5.14	1.87	20.6	1917
1918	1.55	1.41	4.20	30.5	12.8	13.5	15.2	9.78	8.63	8.27	5.54	3.08	8.22	1918
1919	2.38	2.15	1.98	27.4	19.9	11.3	28.0	8.18	7.80	8.48	4.88	2.68	10.5	1919
1920	2.85	2.85	2.78	38.0	152	38.8	11.2 R	5.70 R	4.71 R	5.29 R	7.29 R	3.72	22.7 R	1920
1921	2.43	2.18	2.78	88.8	91.6	78.0	89.5	35.8	28.8	41.4	42.8	14.9	43.1	1921
1922	8.15	5.20	5.45	188	323	88.2	24.3	12.8	9.84	8.14	8.15	4.87	57.7	1922
1923	3.61	3.72	3.80	88.8	187	88.8	57.7	24.1	8.30	8.88	6.72	4.18	35.8	1923
1924	2.82	2.30	2.78	21.8	28.8	18.4	9.88	13.7	8.20	8.18	8.42	4.07	10.3	1924
1925	3.00	2.44	3.83	108	33.2	30.8	21.0	7.78	8.17	8.87	4.15	2.83	19.0	1925
1926	1.71	1.78	3.88	81.8	23.8	14.8	8.13	3.28	8.73	11.0	8.71	3.88	11.8	1926
1927	3.10	2.84	2.82	118	134	48.8	33.8	18.4	18.8	20.4	11.8	8.21	38.1	1927
1928	3.71	2.88	23.8	87.2	48.8	30.8	38.0	10.8	4.88	4.82	3.01	2.48	21.4	1928
1929	2.21	1.81	2.27	30.3	23.2	12.1	8.70	3.88	3.24	3.88	3.98	3.14	8.08	1929
1930	2.04	1.82	2.78	28.8	14.3	10.8	8.72	3.34	2.88	3.38	3.27	2.15	8.88	1930
1931	1.87	1.87	2.83	24.8	8.80	4.83	3.83	2.82	2.71	3.08	2.09	0.921	4.80	1931
1932	0.880	1.08	1.32	28.3	10.2 R	8.82	7.44 R	4.04	3.38	---	---	---	---	1932
1942	---	---	---	---	---	---	8.88	8.82	8.18	---	---	---	---	1942
1943	---	---	---	---	22.4	17.3	8.32	3.83	2.84	2.83	---	---	---	1943
1944	---	---	---	---	8.70	4.82	3.24	1.84	2.38	2.40	---	---	---	1944
1945	---	---	---	18.1	18.8	8.87	8.31	3.82	3.20	4.15 R	---	---	---	1945
1946	---	---	---	38.8	12.3	8.47	7.08	2.10	1.88	3.84	---	---	---	1946
1947	---	---	---	---	81.4	28.1	28.1	7.81	7.34	7.47	---	---	---	1947
1948	---	---	---	---	187	18.8	18.4	13.1	4.43	3.28	---	---	---	1948
1949	---	---	---	14.2 R	8.82	13.8	8.28	4.72	2.48	2.71	---	---	---	1949
1950	---	---	---	---	28.0	12.0	8.88	7.28	3.10	4.07	3.82	2.14	---	1950
1951	1.80	1.84	1.80	38.4	57.2	14.7	9.47	8.58	8.88	13.4	10.1	4.00	13.8	1951
1952	1.82	1.88	1.88	84.8	21.8	8.87	4.77	2.78	3.42	3.87	2.48	1.82	8.12	1952
1953	1.82	1.74	2.88	34.8	28.1	33.8	78.5	44.7	20.8	12.8	12.4	8.88	23.1	1953
1954	3.81	3.08	3.12	38.1	84.8	128	82.8	18.8	18.8	23.8	22.5	8.80	37.3	1954
1955	3.88	3.34	3.24	114	171	88.8	22.0	8.80	4.12	4.82	4.52	2.81	34.4	1955
1956	3.18	1.48	2.78	28.0	187	81.0	28.1	10.8	7.28	8.11	7.58	3.88	28.8	1956
1957	3.08	4.81	5.27	47.8	84.3	14.3	8.84	3.81	2.83	3.10	2.82	2.17	18.0	1957
1958	1.85	1.84	2.81	18.8	8.54	3.32	2.18	1.33	2.28	2.42	3.07	1.87	3.80	1958
1959	1.44	1.10	3.03	23.8	10.4	7.03	7.28	2.34	2.48	3.83	4.80	3.44	8.88	1959
1960	2.48	1.78	2.82	82.8	47.7	22.0	7.78	1.80	1.13	1.78	1.71	1.28	12.8	1960
1961	1.22	1.08	2.13	4.84	4.83	3.38	0.867	0.382	0.582	1.88	1.81	1.42	1.81	1961
1962	0.888	0.588	2.28	28.0 R	24.1 R	8.08 R	1.81 R	1.28 R	1.88 R	1.81 R	2.13 R	2.11	8.88R	1962
1963	0.888	0.818	3.88	18.8	7.21	8.47	4.82	1.71	1.82	2.41	1.78	1.48	4.03	1963
1964	1.70	1.78	2.80	12.0	11.8	3.71	1.88	1.48	1.07	2.10	2.32	1.47	3.84	1964
1965	1.38	1.27	1.41	38.3	23.3	28.4	8.78	4.87	3.88	4.78	3.08	2.30	8.88	1965
1966	2.88	2.04	2.83	87.8	82.8	18.0	18.8	7.48	3.41	2.48	3.00	2.30	18.2	1966
1967	2.32	1.70	2.33	12.8	87.3	14.1	3.82	1.81	0.810	1.22	1.74	1.48	8.47	1967
1968	1.28	1.48	8.78	23.2	8.48	3.80	2.33	1.70	0.233	0.238	0.387	0.880	3.83	1968
1969	0.818	0.758	0.817	14.1	18.8	2.02	2.00	2.09	1.84	1.78	3.88	4.44	4.28	1969
1970	4.17	3.88	3.82	21.8	48.8	15.7	10.3	4.03	2.88	1.83	2.85	3.80	10.3	1970
1971	3.81	3.88	3.77	8.77	18.8	8.48	12.8	7.84	1.73	4.48	11.7	12.8	7.83	1971
1972	13.8	13.8	13.4	13.8	78.3	48.8	2.81	2.28	3.88	8.22	13.8	18.0	18.4	1972
1973	12.8	8.38	8.81	1.78	1.83	1.38	1.30	1.80	4.37	8.34	8.77	8.48	8.40	1973
1974	8.88	8.80	20.4	28.1	80.7	88.4	48.2	13.8	8.01	8.03	11.8	13.8	23.4	1974
1975	13.4	13.3	13.1	8.80	88.1	40.3	28.8	27.7	7.82	8.88	18.7	18.7	22.2	1975
1976	18.4	18.0	7.18	38.8	81.7	48.8	43.3	22.0	7.82	7.38	8.38	8.81	23.0	1976
1977	7.88	8.13	4.08	1.70	1.88	2.38	3.87	8.77	3.84	3.83	12.3	11.8	8.33	1977
1978	12.1	12.8	8.88	4.88	1.18	0.783	0.805	1.38	3.23	4.80	8.44	8.14	8.37	1978
1979	8.18	8.82	24.3	30.8	83.3	80.3	38.7	8.08	8.31	7.83	10.8	11.4	21.8	1979
1980	11.3	10.8	12.4	8.04	1.80	8.13	8.13	4.88	4.38	4.31	8.08	7.82	8.74	1980
1981	7.08	7.41	2.73	1.78	0.881	0.888	0.882	0.777	2.88	8.87	8.48	7.83	3.88	1981
1982	8.01	8.88	2.38	2.22	0.811	0.897	0.858	0.728	0.878	1.24	7.87	11.2	3.88	1982
1983	10.2	8.02	15.3	7.27	38.8	30.2	18.1	14.3	3.70	8.22	13.2	11.8	14.8	1983
1984	12.4	10.3	8.48	1.18	1.02	10.8	17.8	3.88	4.28	7.84	10.1	12.7	8.18	1984
MEAN	4.48	4.02 R	5.08 R	37.0 R	80.1 R	24.4 R	18.8 R	8.87 R	5.72 R	8.24 R	7.87 R	8.40	18.0	MEAN

LOCATION - LAT 80 48 38 N DRAINAGE AREA, 19 300 km²
LONG 101 28 10 W REGULATED SINCE 1988

R - REVISED SINCE JAN 1980

REMARKS - DISCHARGE RECORDS PRIOR TO JAN 1958 WERE COLLECTED AT MILLWOOD, APPROX. 13 km DOWNSTREAM

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	280 E ON APR 24	---	---	1913
1914	---	131 ON MAY 20	0.6988 ON DEC 29	587 000R	1914
1915	---	34.0 ON APR 17	1.27 B ON JAN 1	187 000	1915
1916	---	83.0 ON APR 23	1.27 B ON MAR 1	484 000	1916
1917	---	180 ON MAY 18	0.6238 ON DEC 13	850 000	1917
1918	---	48.7 ON APR 5	1.08 B ON JAN 30	291 000	1918
1919	---	50.1 ON APR 20	1.42 B ON FEB 26	336 000	1919
1920	---	203 ON MAY 14	2.27 B ON MAR 3	718 000R	1920
1921	---	138 ON MAY 3	2.15 B ON FEB 21	1 380 000	1921
1922	---	504 ON APR 29 *	3.74 B ON DEC 31	1 820 000	1922
1923	---	411 ON MAY 1	3.08 B ON DEC 31	1 130 000	1923
1924	---	50.7 ON APR 26	2.21 B ON JAN 23	324 000	1924
1925	---	142 ON APR 19	1.85 B ON DEC 28	556 000	1925
1926	---	79.6 ON APR 19	1.47 B ON JAN 15	361 000	1926
1927	---	357 ON APR 26	2.27 B ON MAR 5	1 110 000	1927
1928	---	132 B ON APR 13	2.27 B ON NOV 4	676 000	1928
1929	---	70.8 ON APR 29	1.84 B ON FEB 19	254 000	1929
1930	---	84.8 ON APR 13	1.25 B ON FEB 12	210 000	1930
1931	---	51.6 B ON APR 11	0.7085 ON DEC 31	151 000	1931
1932	---	53.2 B ON APR 13	0.6955 ON JAN 25	---	1932
1942	---	---	---	---	1942
1943	---	---	2.82 ON SEP 20	---	1943
1944	---	20.8 B ON APR 21	---	---	1944
1945	---	31.1 B ON APR 3	---	---	1945
1946	---	84.8 B ON APR 4	---	---	1946
1947	---	118 ON APR 23	---	---	1947
1948	---	276 ON MAY 4	---	---	1948
1949	---	52.9 RB ON APR 2	---	---	1949
1950	---	75.0 ON APR 27	---	---	1950
1951	---	78.5 ON MAY 15	0.9818 ON FEB 28	438 000	1951
1952	---	89.4 B ON APR 12	1.33 B ON FEB 6	288 000	1952
1953	---	88.1 ON JUL 17	1.27 B ON JAN 10	728 000	1953
1954	---	264 ON JUN 25	2.83 B ON JAN 31	1 180 000	1954
1955	---	273 ON MAY 15	2.21 B ON DEC 18	1 080 000	1955
1956	---	224 ON MAY 18	0.7935 ON FEB 16	813 000	1956
1957	---	170 ON MAY 3	1.90 B ON DEC 31	503 000	1957
1958	38.2 AT 15:30 CST ON APR 8	35.1 ON APR 8	0.863 ON AUG 21	120 000	1958
1959	50.7 AT 08:30 CST ON APR 8	47.0 ON APR 8	0.8238 ON FEB 19	185 000	1959
1960	128 AT 02:30 CST ON APR 28 *	128 ON APR 28	0.884 ON SEP 23	407 000	1960
1961	---	8.37 ON APR 20	0.159 ON AUG 25 *	80 100	1961
1962	---	74.2 R ON APR 24	0.1888 ON FEB 8	188 000R	1962
1963	---	21.1 B ON APR 19	0.2809 ON MAR 10	127 000	1963
1964	---	19.6 B ON APR 22	0.872 ON SEP 4	115 000	1964
1965	---	75.3 ON APR 21	1.22 B ON FEB 23	315 000	1965
1966	---	118 ON APR 25	1.64 B ON FEB 2	478 000	1966
1967	---	70.2 ON MAY 15	0.215 ON SEP 6	258 000	1967
1968	---	46.4 B ON APR 14	0.184 ON SEP 15	121 000	1968
1969	---	47.3 A ON MAY 4	0.8695 ON JAN 1	135 000	1969
1970	58.5 AT 08:43 CST ON MAY 3	58.5 ON MAY 2	1.18 B ON NOV 17	324 000	1970
1971	68.5 AT 18:48 CST ON MAY 14	65.1 ON MAY 14	0.806 ON MAY 4	241 000	1971
1972	112 AT 04:22 CST ON MAY 11	111 ON MAY 10	1.02 ON APR 3	582 000	1972
1973	---	15.1 B ON JAN 15	1.17 ON JUN 13	170 000	1973
1974	71.5 AT 02:23 CST ON MAY 22	71.1 ON MAY 21	5.63 ON OCT 2	738 000	1974
1975	96.6 AT 16:48 CST ON MAY 18	96.3 ON MAY 18	2.87 B ON APR 6	700 000	1975
1976	62.4 AT 06:55 CST ON APR 26	62.1 ON APR 26	5.31 B ON MAR 15	727 000	1976
1977	13.8 AT 16:00 CST ON NOV 7	13.6 ON NOV 7	1.01 ON JUN 6	188 000	1977
1978	---	13.8 B ON FEB 6	0.184 ON AUG 8	170 000	1978
1979	78.6 AT 21:29 CST ON APR 20	66.9 ON MAY 29	3.83 ON AUG 29	878 000	1979
1980	16.8 AT 21:52 CST ON APR 5	15.7 ON APR 5	0.612 ON MAY 23	213 000	1980
1981	10.58 AT 11:36 CST ON DEC 19	10.3 B ON DEC 19	0.422 ON AUG 20	121 000	1981
1982	---	14.5 B ON DEC 10	0.5138 ON APR 3	118 000	1982
1983	39.3 AT 21:31 CST ON JUN 13	38.1 ON MAY 8	2.22 B ON MAR 7	467 000	1983
1984	25.5 AT 11:48 CST ON JUN 30	25.4 ON JUN 30	0.872 ON APR 28	268 000	1984
				472 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

BADGER CREEK NEAR CARTWRIGHT - STATION NO. 05DA007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.226	0.133	0.051	0.021	0.002	0.078	0.080	0.745	---	---	---	1959
1960	---	---	0.007	18.2	0.732	0.232	0.031	0	0	0	---	---	---	1960
1961	---	---	0.130	0.702	0.078	0.008	0	0	0	0	---	---	---	1961
1962	---	---	0	2.28	0.108	0.319	0.005	0.003	0.001	0	---	---	---	1962
1963	---	---	0.218	0.358	0.017	1.05	0.387	0.027	0	0	---	---	---	1963
1964	---	---	0	3.18	0.238	0.190	0.048	0.011	0.070	0.028	---	---	---	1964
1965	---	---	0	3.48	3.02	0.918	0.614	0.858	0.828	0.818	---	---	---	1965
1966	---	---	1.41	2.08	1.07	0.282	0.233	0.219	0.114	0.131	---	---	---	1966
1967	---	---	0.016	1.90	1.50	0.495	0	0	0	0	---	---	---	1967
1968	---	---	0.197	0.122	0.022	0.001	0	2.79	3.37	0.313	---	---	---	1968
1969	---	---	0	38.8	5.89	1.13	2.78	0.289	0.074	0.043	---	---	---	1969
1970	---	---	0	8.58	8.58	5.56	2.83	0.838	0.177	0.085	---	---	---	1970
1971	---	---	0	19.5	4.15	3.03	4.89	0.898	0.118	0.280	0.187	0.029	---	1971
1972	0.008	0	4.59	5.46	3.09	1.12	0.121	0.228	0.024	0.019	0.023	0.004	1.14	1972
1973	0	0.005	0.232	0.059	0.131	0.918	0.247	0.018	0.108	0.127	0.055	0.021	0.180	1973
1974	0.004	0.001	0.005	33.8	13.8	3.46	0.388	0.082	0.018	0.014	0.012	0.010	4.28	1974
1975	0.004	0	0.004	8.11	4.23	0.915	0.084	0.001	0.012	0.018	0.010	0.005	1.18	1975
1976	0.007	0.012	0.032	23.4	1.86	0.205	0.039	0.009	0.007	0.006	0	0	2.11	1976
1977	0	0	0.041	0.058	0.135	0.012	0.038	0.001	0.001	0.002	0.003	0.005	0.025	1977
1978	0.005	0.003	0.024	4.43	0.236	0.051	0.215	0.008	0.005	0.007	0.003	0	0.411	1978
1979	0	0	0.001	22.4	9.80	0.840	0.179	0.058	0.047	0.018	0.017	0.011	2.76	1979
1980	0.005	0.001	0.007	1.21	0.012	0.081	0.002	0.088	0.178	0.227	0.283	0.037	0.175	1980
1981	0.009	0.887	1.73	0.538	0.278	0.198	0.058	0.025	0.017	0.043	0.082	0.038	0.323	1981
1982	0.012	0.006	0.343	7.42	2.27	2.53	1.15	0.500	0.332	0.586	0.284	0.099	1.28	1982
1983	0.023	0.008	0.827	8.86	1.17	0.553	0.334	0.024	0.008	0.028	0.034	0.014	0.801	1983
1984	0.004	0.009	0.723	0.713	0.837	0.053	0.011	0.003	0	0	0.006	0.010	0.207	1984
MEAN	0.006	0.072	0.606	8.12	2.47	0.831	0.859	0.270	0.215	0.128	0.088	0.020	1.14	MEAN

LOCATION - LAT 48 05 18 N
LONG 55 10 22 W
DRAINAGE AREA, 1 520 km²
NATURAL FLOW

BADGER CREEK NEAR CARTWRIGHT - STATION NO. 05DA007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.83 ON OCT 25	0 ON MAR 1 *	---	1959
1960	---	47.0 ON APR 7	0 E ON MAR 1	---	1960
1961	---	2.12 B ON APR 4	0 B ON MAR 1	---	1961
1962	---	8.83 B ON APR 6	0 B ON MAR 1	---	1962
1963	---	5.52 ON JUN 4	0 ON MAR 1	---	1963
1964	---	18.8 B ON APR 5	0 B ON MAR 1	---	1964
1965	---	17.0 ON APR 13	0 B ON MAR 1	---	1965
1966	---	4.84 B ON MAR 31	0 B ON MAR 1	---	1966
1967	---	6.74 ON APR 27	0 B ON MAR 1	---	1967
1968	---	12.5 ON AUG 26	0 B ON MAR 1	---	1968
1969	---	207 B ON APR 12 *	0 B ON MAR 1	---	1969
1970	---	37.1 ON APR 30	0 B ON MAR 1	---	1970
1971	---	64.8 ON APR 11	0 B ON MAR 1	---	1971
1972	---	30.0 B ON MAR 17	0 B ON JAN 22	36 100	1972
1973	---	7.90 ON JUN 20	0 B ON JAN 1	5 030	1973
1974	---	158 ON APR 19	0.0018 ON JAN 10	135 000	1974
1975	45.0 AT 09:30 CST ON APR 29 *	41.6 ON APR 29	0 B ON FEB 3	37 800	1975
1976	---	78.0 B ON APR 4	0 B ON NOV 8	66 800	1976
1977	0.908 AT 07:47 CST ON MAY 23	0.778 ON MAY 22	0 B ON JAN 1	780	1977
1978	---	24.4 B ON APR 6	0 B ON NOV 30	13 000	1978
1979	---	158 B ON APR 22	0 B ON JAN 1	87 000	1979
1980	8.72 B AT 22:30 CST ON APR 5	8.48 B ON APR 6	0 B ON MAR 7	5 540	1980
1981	8.34 B AT 02:05 CST ON FEB 25	4.65 B ON FEB 25	0.0048 ON FEB 6	10 200	1981
1982	32.7 B AT 23:19 CST ON APR 12	28.6 B ON APR 13	0.0048 ON FEB 16	40 500	1982
1983	25.8 B AT 00:16 CST ON APR 1	17.5 B ON APR 1	0.0048 ON MAR 2	25 300	1983
1984	4.28 B AT 02:13 CST ON MAR 25	3.65 B ON MAR 25	0 ON AUG 19	8 550	1984
				38 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BALD HILL CREEK NEAR MCCREARY - STATION NO. 05LJ805

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	---	---	---	0.011	0.009	0.002	0	---	---	---	---	1981
1982	---	---	---	---	0.110	0.056	0.002	---	---	---	---	---	---	1982
1983	---	---	---	---	0.116	0.093	0.003	0.003	0.002	---	---	---	---	1983
1984	---	---	---	---	0.053	0.008	0.002	0.002	0.002	---	---	---	---	1984
1985	---	---	---	0.011	---	0.082	0.001	0.004	0.103	---	---	---	---	1985
1986	---	---	---	0.081	0.105	0.006	0.003	0.037	0.003	0.003	---	---	---	1986
1987	---	---	---	0.049	0.123	0.058	0.003	0.001	0	0.004	---	---	---	1987
1988	---	---	---	---	0.048	0.025	0.029	0.033	0.018	0.009	---	---	---	1988
1989	---	---	---	0.088	0.088	0.082	0.136	0.027	0.032	0.032	---	---	---	1989
1970	---	---	---	---	0.201	0.192	0.038	0.005	0.014	---	---	---	---	1970
1971	---	---	---	---	0.056	0.176	0.055	0.011	---	---	---	---	---	1971
1972	---	---	---	---	0.109	0.013	0.008	0.008	0.008	---	---	---	---	1972
1973	---	---	---	---	0.028	0.056	0.014	0.023	0.043	0.058	---	---	---	1973
1974	---	---	---	0.148	0.152	0.084	0.007	0.008	0.010	0.011	---	---	---	1974
1975	---	---	---	---	0.108	0.038	0	0.032	0.124	---	---	---	---	1975
1976	---	---	---	0.084	0.033	0.020	0.018	0	0	---	---	---	---	1976
1977	---	---	---	---	0.027	0.013	0.089	---	0.047	0.025	---	---	---	1977
1978	---	---	---	---	0.044	0.003	0	0	0.007	0.005	---	---	---	1978
1979	---	---	---	---	0.122	0.109	0.009	0.008	0.008	0.009	---	---	---	1979
1980	---	---	---	---	---	0.021R	0.050R	0.097R	0.010R	---	---	---	---	1980
1981	---	---	---	---	0.022	0.030	0	0	0.001	---	---	---	---	1981
1982	---	---	---	---	0.088R	0.028R	0.020R	0.018R	0.018R	---	---	---	---	1982
1983	---	---	---	---	0.128R	0.035R	0.095R	0.009R	0.009R	---	---	---	---	1983
MEAN	---	---	---	0.079	0.088R	0.052R	0.024R	0.018R	0.022R	0.017	---	---	---	MEAN

LOCATION - LAT 50 42 18 N
LONG 99 40 00 W

REGULATED SINCE 1981

DATA CONTRIBUTED BY - MANITOBA WATER RESOURCES BRANCH

R - REVISED SINCE JAN 1980

BALD HILL CREEK NEAR MCCREARY - STATION NO. 05LJ805

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	---	---	---	1981
1982	---	---	---	---	1982
1983	---	---	---	---	1983
1984	---	---	---	---	1984
1985	---	---	---	---	1985
1986	---	---	---	---	1986
1987	---	---	---	---	1987
1988	---	---	---	---	1988
1989	---	---	---	---	1989
1970	---	---	---	---	1970
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	---	---	---	1973
1974	---	---	---	---	1974
1975	---	---	---	---	1975
1976	---	---	---	---	1976
1977	---	---	---	---	1977
1978	---	---	---	---	1978
1978	0.158R AT 23:33 CST ON MAY 18 *	0.158 ON MAY 18 *	---	---	1978
1980	---	---	---	---	1980
1981	0.122R AT 09:15 CST ON JUN 18	0.119 ON JUN 18	0 ON JUL 5 *	---	1981
1982	---	---	---	---	1982
1983	---	---	---	---	1983
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980		---	MEAN

BARRINGTON RIVER BELOW FIRST RAPIDS - STATION NO. 06EB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	---	---	---	---	23.4	20.5	15.6	11.6	---	---	---	1974
1975	---	---	---	---	17.2	30.1	31.6	24.5	15.4	12.3	---	---	---	1975
1976	---	---	---	---	---	---	---	---	15.0	13.5	11.6	10.2	---	1976
1977	8.48	8.93	5.58	11.1	22.0	34.5	32.4	21.4	15.3	12.6	12.0	9.51	18.1	1977
1978	7.48	6.74	4.50	4.48	12.3	15.8	---	---	---	27.4	18.6	14.2	---	1978
1979	10.3	7.41	6.01	5.07	7.73	10.3	8.58	8.23	8.44	8.02	7.78	6.88	8.07	1979
1980	6.82	4.93	4.18	5.35	7.08	12.0	20.3	31.7	32.7	31.0	23.2	18.3	18.3	1980
1981	12.5	9.17	7.08	5.80	12.4	11.1	8.00	6.82	4.75	5.08	5.09	4.35	7.77	1981
1982	3.18	2.81	2.48	2.18	19.8	24.4	19.2	20.3	14.1	9.74	7.34	6.71	11.1	1982
1983	6.10	5.04	4.14	3.80	11.1	21.8	16.5	13.1	27.7	32.2	25.8	18.7	15.8	1983
1984	13.6	10.8	8.11	11.8	18.4	15.5	10.8	7.53	6.32	4.74	4.88	4.83	8.88	1984
MEAN	8.48	6.58	5.28	6.18	14.0	19.5	19.0	17.1	15.7	15.4	13.1	10.2	13.0	MEAN

LOCATION - LAT 58 46 50 N
LONG 89 58 35 W

DRAINAGE AREA, 1 770 km^2
NATURAL FLOW

BARRINGTON RIVER BELOW FIRST RAPIDS - STATION NO. 05EB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	---	---	---	1974
1975	36.2 AT 16:48 CST ON JUN 30	35.7 ON JUN 30	---	---	1975
1976	---	---	---	---	1976
1977	38.2 AT 09:20 CST ON JUN 14	37.9 ON JUN 17	5.01 ON APR 1	507 000	1977
1978	---	---	---	---	1978
1979	12.4 AT 03:10 CST ON JAN 1	12.3 ON JAN 1	4.71 ON APR 10	255 000	1979
1980	38.4 AT 22:31 CST ON AUG 2	38.4 ON AUG 2	3.85 ON APR 13	514 000	1980
1981	19.2 AT 08:58 CST ON MAY 15	18.0 ON MAY 15	3.56 ON OCT 5	245 000	1981
1982	31.4 AT 12:00 CST ON MAY 7	31.4 ON MAY 7	1.73 ON APR 7 *	350 000	1982
1983	40.9 AT 12:00 CST ON SEP 21 *	40.9 ON SEP 21 *	3.34 ON APR 13	490 000	1983
1984	20.8 AT 21:05 CST ON APR 24	20.4 ON APR 24	4.11 ON OCT 16	302 000	1984
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		380 000	MEAN

BEAVER CREEK EAST OF BEAVER - STATION NO. 05LL026

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1976	---	---	0.001	3.50	0.103	0.034	0	0	0	0	---	---	0.446	1976
1977	---	---	0.001	0.032	0.037	0.005	0.033	0	0.004	0.021	---	---	0.017	1977
1978	---	---	0	0.805	0.076	0.033	0.008	0.001	0.013	0.002	---	---	0.127	1978
1979	---	---	0	5.84	2.86	0.471	0.008	0	0	0	---	---	1.10	1979
1980	---	---	0	0.173	0.004	0	0	0.336	0.004	0.003	---	---	0.065	1980
1981	---	---	0.036	0.062	0.116	0.257	0	0	0	0.158	---	---	0.079	1981
1982	---	---	0.047	0.611	0.537	0.154	0.053	0.009	0	0.011	---	---	0.177	1982
1983	---	---	0.001	2.80	0.237	0.101	0.024	0	0	0	---	---	0.388	1983
1984	---	---	0.148	0.235	0.356	0.438	0	0	0	0.002	---	---	0.147	1984
MEAN	---	---	0.028	1.53	0.481	0.166	0.024	0.038	0.002	0.022	---	---	0.283	MEAN

LOCATION - LAT 50 04 00 N DRAINAGE AREA, 275 km^2
LONG 98 37 40 W NATURAL FLOW

BEAVER CREEK EAST OF BEAVER - STATION NO. 05LL026

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1976	24.1 B AT 20:30 CST ON APR 5	17.0 B ON APR 5	0B ON MAR 1 *	8 460	1976
1977	1.07 AT 20:44 CST ON MAY 14	0.425 ON JUL 11	0B ON MAR 1	356	1977
1978	6.89B AT 12:37 CST ON APR 20	2.92 B ON APR 20	0B ON MAR 1	2 890	1978
1979	45.0 AT 01:41 CST ON APR 23 *	43.1 ON APR 23 *	0B ON MAR 1	23 300	1979
1980	7.46 AT 07:02 CST ON AUG 21	4.96 ON AUG 21	0B ON MAR 1	1 380	1980
1981	1.02 AT 02:38 CST ON JUN 2	0.670 ON JUN 2	0B ON MAR 1	1 660	1981
1982	1.78 AT 22:23 CST ON MAY 19	1.66 ON MAY 19	0B ON MAR 1	3 740	1982
1983	---	7.75 B ON APR 6	0B ON MAR 1	8 220	1983
1984	2.43B AT 01:00 CST ON MAY 8	2.18 ON JUN 20	0B ON MAR 1	3 100	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 890	MEAN

BEAVER CREEK NEAR BEAVER - STATION NO. 05LL022

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	3.51	1.14	0.073	0	0.001	0	0	---	---	0.583	1974
1975	---	---	0	0.844	0.188	0.035	0.005	0.005	0.005	0.007	---	---	0.108	1975
MEAN	---	---	0	2.08	0.655	0.054	0.003	0.004	0.005	0.004	---	---	0.345	MEAN

LOCATION - LAT 50 03 37 N DRAINAGE AREA, 257 km^2
LONG 98 41 45 W NATURAL FLOW

BEAVER CREEK NEAR BEAVER - STATION NO. 05LL022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	18.4 B ON APR 18 *	0B ON MAR 1 *	12 300	1974
1975	---	2.57B ON APR 12	0B ON MAR 1	2 290	1975
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 300	MEAN

BELL RIVER NEAR BELLSITE - STATION NO. 05LF002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	0.801	6.07	7.56	2.46	1.82	2.19	1.28	---	---	---	1954
1955	---	---	---	2.12	3.20	0.888	0.858	0.241	0.238	0.484	---	---	---	1955
1956	---	---	---	0.478	2.63	1.78	2.15	1.70	0.926	0.466	---	---	---	1956
1957	---	---	0.203	0.890	2.87	1.59	1.37	0.823	1.35	0.880	---	---	1.23	1957
1958	---	---	0.193	1.09	1.23	0.788	5.30	0.908	0.582	0.881	---	---	1.35	1958
1959	---	---	0.178	0.536	1.73	1.85	1.03	0.320	3.31	1.82	---	---	1.30	1959
1960	---	---	0.340	0.878	3.84	3.02	1.45	0.751	0.317	0.334	---	---	1.30	1960
1961	---	---	0.232	0.288	0.513	0.233	0.153	0.131	0.138	0.170	---	---	0.233	1961
1962	---	---	0.089	0.364	1.36	0.307	0.135	0.183	0.404	0.243	---	---	0.382	1962
1963	---	---	0.094	1.42	1.83	2.35	0.858	0.848	0.889	0.458	---	---	1.05	1963
1964	---	---	---	0.502	2.05	0.815	0.378	1.70	2.17	0.782	---	---	---	1964
1966	---	---	0.147	0.313	2.83	3.10	2.88	2.05	1.83	1.82	---	---	1.84	1966
1967	---	---	0.131	0.231	4.78	2.01	1.25	0.485	0.286	0.570	---	---	1.28	1967
1968	---	---	0.212	0.387	1.85	2.85	---	---	---	---	---	---	---	1968
1969	---	---	0.227	1.44	0.810	1.58	1.58	0.680	0.611	1.80	---	---	1.09	1969
1970	---	---	0.180	0.502	5.65	2.17	1.82	1.22	1.49	2.88	---	---	2.01	1970
1971	---	---	0.261	2.27	1.90	3.09	1.85	1.19	0.883	1.25	---	---	1.58	1971
1972	---	---	0.231	1.22	4.19	1.87	1.48	0.901	0.463	0.370	---	---	1.30	1972
1973	---	---	0.237	0.179	2.34	6.33	2.78	0.801	0.992	0.881	---	---	1.81	1973
1974	---	---	0.179	1.34	6.19	3.14	1.59	1.03	1.73	1.29	---	---	2.08	1974
1975	---	---	0.289	0.925	3.60	2.48	1.43	1.42	1.74	1.41	---	---	1.85	1975
1976	---	---	0.234	1.26	0.771	2.16	0.898	0.812	0.267	0.281	---	---	0.817	1976
1977	---	---	0.261	0.986	0.591	0.319	---	1.53	2.85	1.87	---	---	---	1977
1978	---	---	0.249	0.583	1.90	0.889	0.822	0.384	0.713	0.919	---	---	0.809	1978
1979	---	---	0.255	0.467	5.27	5.11	1.88	0.889	0.348	0.381	---	---	1.77	1979
1980	---	---	0.184	0.857	0.382	0.374	0.378	1.43	1.42	1.24	---	---	0.798	1980
1981	---	---	0.188	0.578	0.751	1.88	1.23	1.27	1.11	1.58	---	---	1.09	1981
1982	---	---	0.228	0.531	1.14	1.72	3.75	1.50	1.09	0.844	---	---	1.38	1982
1983	---	---	0.388	1.48	5.88	4.43	2.72	1.53	2.38	1.32	---	---	2.51	1983
1984	---	---	0.313	2.48	4.53	4.76	2.01	0.938	1.30	4.31	---	---	2.88	1984
MEAN	---	---	0.217	0.913	2.74	2.37	1.88	1.00	1.18	1.09	---	---	1.38	MEAN

LOCATION - LAT 52 38 10 N DRAINAGE AREA, 170 km²
LONG 101 02 15 W REGULATED SINCE 1955

BELL RIVER NEAR BELLSITE - STATION NO. 05LF002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1954	---	14.4 ON MAY 23	---	---	1954
1955	---	6.88 ON MAY 7	---	---	1955
1956	---	6.71 ON MAY 18	---	---	1956
1957	---	6.12 ON MAY 3	0.1988 ON MAR 1	28 100	1957
1958	128 AT 03:00 CST ON JUL 8 *	45.8 ON JUL 8 *	0.1708 ON MAR 1	28 600	1958
1959	14.2 AT 22:00 CST ON SEP 2	11.6 A ON JUN 28	0.1428 ON MAR 1	27 600	1959
1960	8.72 AT 08:30 CST ON JUN 21	8.07 ON MAY 13	0.2558A ON APR 8	27 800	1960
1961	0.855 AT 01:00 CST ON MAY 20	0.810 ON MAY 13	0.128 ON AUG 15	4 820	1961
1962	---	2.92 ON MAY 3	0 E ON MAR 1 *	8 070	1962
1963	7.58 AT 07:00 CST ON JUN 13	6.40 ON JUN 13	0.0858 ON MAR 1	22 300	1963
1964	---	6.80 ON AUG 11	---	---	1964
1966	8.40 AT 17:15 CST ON AUG 28	8.09 ON JUL 16	0.1198 ON MAR 1	36 800	1966
1967	13.7 AT 12:00 CST ON MAY 26	13.0 ON MAY 26	0.1138 ON MAR 1	27 100	1967
1968	---	---	---	---	1968
1969	---	12.8 ON OCT 3	0.2278 ON MAR 1	23 000	1969
1970	---	14.4 ON MAY 18	0.1388 ON MAR 1	42 500	1970
1971	---	11.0 ON JUN 6	0.2278 ON MAR 28	33 000	1971
1972	---	11.0 ON MAY 3	0.1708 ON OCT 31	27 800	1972
1973	---	38.6 ON JUN 18	0.0858 ON APR 10	36 300	1973
1974	---	21.8 ON MAY 22	0.1648 ON MAR 1	43 700	1974
1975	---	8.50 A ON MAY 7	0.2888 ON MAR 1	34 800	1975
1976	---	8.51 A ON JUN 14	0.2108 ON OCT 29	17 300	1976
1977	---	8.07 E ON SEP 28	---	---	1977
1978	8.88 AT 00:01 CST ON MAY 3	5.10 ON MAY 3	0.210 ON AUG 31	17 100	1978
1979	---	18.2 E ON MAY 27	0.2218 ON MAR 1	37 400	1979
1980	---	2.80 A ON SEP 4	0.170 ON AUG 2	16 800	1980
1981	7.51 AT 23:43 CST ON JUN 4	5.77 ON JUN 24	0.1248 ON MAR 1	23 200	1981
1982	44.5 AT 13:15 CST ON JUL 17	21.1 ON JUL 16	0.138 ON MAY 15	29 200	1982
1983	18.7 AT 18:48 CST ON JUN 3	15.5 ON JUN 3	0.3528 ON APR 7	53 100	1983
1984	18.3 AT 19:14 CST ON JUN 7	14.0 ON JUN 7	0.301 ON MAR 1	84 600	1984
				28 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BERENS RIVER ABOVE LITTLE GRAND RAPIDS - STATION NO. 05RD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	---	---	---	60.6	44.6	67.9	82.8	---	1914
1915	85.6	48.3	38.6	38.6	118	227	118	88.1	48.6	37.7	36.6	51.1	74.3	1915
1916	53.8	45.6	38.7	37.7	104	388	217	182	84.1	68.7	67.5	88.4	101	1916
1917	52.9	44.2	41.5	30.8	34.5	41.2	88.7	139	265	---	---	---	---	1917
1918	---	---	---	---	---	---	---	283	218	---	---	---	---	1918
1919	---	---	---	---	---	---	---	---	---	77.1	92.4	88.8	---	1919
1920	86.3	48.5	37.2	38.3	84.2	250	358	130	78.4	61.2	47.7	52.4	85.8	1920
1921	47.6	40.6	34.5	34.4	97.8	388	318	147	88.2	123	178	145	136	1921
1922	86.0	86.6	61.5	53.8	171	271	178	182	127	80.8	68.0	60.5	114	1922
1923	49.8	43.5	36.8	---	---	---	---	---	---	---	---	---	---	1923
MEAN	61.7	48.8	39.7	38.3	103	238	193	153	121	69.0	78.0	77.0	104	MEAN

LOCATION - LAT 52 03 00 N DRAINAGE AREA, 18 300 km²
LONG 98 28 00 W NATURAL FLOW

BERENS RIVER ABOVE LITTLE GRAND RAPIDS - STATION NO. 05RD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1914	---	---	---	---	1914
1915	---	261 ON JUN 3	32.6 ON NOV 10	2 340 000	1915
1916	---	278 ON JUN 17	34.3 ON APR 12	3 210 000	1916
1917	---	300 ON SEP 28	29.2 ON APR 23 *	---	1917
1918	---	---	---	---	1918
1919	---	---	---	---	1919
1920	---	320 ON JUL 7	32.6E ON APR 3	3 030 000	1920
1921	---	426 ON JUN 21 *	31.1 ON APR 14	4 300 000	1921
1922	---	309 ON JUN 4	46.7E ON APR 14	3 600 000	1922
1923	---	82.4 ON JAN 7	31.1 ON MAR 31	---	1923
				3 300 000	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BERENS RIVER AT OUTLET OF LONG LAKE - STATION NO. 05RD007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	75.9	44.7	24.1	12.8	7.84	5.85	---	1957
1958	5.84	5.18	5.85	8.41	11.3	24.8	34.1	38.2	31.2	22.8	24.0	26.8	19.8	1958
1959	25.7	19.7	12.1	11.4	87.1	217	131	69.6	34.9	26.8	36.8	28.4	57.8	1959
1960	21.8	15.1	10.4	9.87	21.8	85.0	58.9	31.8	23.6	24.8	20.6	16.6	28.8	1960
1961	15.1	13.0	10.5	10.2	16.7	32.5	27.8	18.8	8.45	6.52	4.91	6.74	14.0	1961
1962	10.1	9.28	7.28	6.84	7.42	46.1	88.8	35.8	26.7	37.4	36.6	34.0	28.3	1962
1963	26.0	18.9	12.0	12.4	48.1	107	88.8	52.1	36.2	11.8	8.08	6.89	35.8	1963
1964	6.71	6.48	6.03	6.86	28.5	78.3	86.6	31.8	22.2	16.8	20.6	23.8	28.1	1964
1965	22.6	16.8	10.7 R	12.0 R	21.1 R	67.2R	80.4R	80.9R	37.2 R	36.8 R	40.0 R	33.6 R	36.6R	1965
1966	23.8 R	16.8	12.4	10.3	18.2	77.6	136	86.4	42.6	18.3	12.6	13.6	39.4R	1966
1967	14.2	13.0	8.47	10.6	25.3	109	124	86.3	33.6	16.8	12.3	4.74	37.0	1967
1968	7.61	7.66	8.28	6.86	11.4	61.2	131	123	116	116	107	84.6	84.3	1968
1969	66.6	43.2	32.4	30.6	63.6	84.2	86.0	127	128	191	149	78.7	80.7	1969
1970	47.6	32.7	21.8 R	18.1 R	26.1 R	35.0R	71.8	62.6	38.3	31.6 R	36.3 R	68.1 R	38.2R	1970
1971	89.7	43.4	23.7 R	30.2 R	76.6	110	84.4	84.3	48.8	38.3	28.0 R	23.8 R	60.4R	1971
1972	23.1	21.1	16.6	16.6	86.3	101	72.3	38.7	24.6 R	20.7 R	21.0 R	26.4	38.6R	1972
1973	21.6	17.8 R	16.6 R	18.6 R	32.6	62.1	67.1	36.0	30.4	37.8	46.0	63.6	36.3R	1973
1974	39.6	28.1 R	21.1 R	24.3 R	88.6	138	114	84.9	48.0	84.6	83.4	39.0	87.2R	1974
1975	27.4	21.4	16.7 R	16.0 R	36.6	77.8	86.3	89.6	76.0	86.9	36.3	24.1	46.1R	1975
1976	18.8	16.4	13.7	26.8 R	36.0	40.4	34.7	21.1R	13.3 R	9.10R	6.88R	5.26	20.8R	1976
1977	4.86	4.86	5.03	7.66	8.81	12.6	24.6	24.7	83.3	82.6	84.0	38.6	27.8	1977
1978	24.8	18.2	14.8	17.3	36.1	46.6	76.7	103	88.7	66.6	60.3	61.8	52.6	1978
1979	29.6	21.6	16.7	24.6	74.4	180	86.6	47.1	36.0	36.0	32.6	31.3	62.6	1979
1980	28.6	26.4	19.0	20.0	27.3	36.4	63.4	29.7	32.9	24.2	18.6	21.6	27.6	1980
1981	17.6	14.2	11.6	13.1	16.1	27.4	46.3	41.3	28.7	28.6	31.8	32.6	26.4	1981
1982	28.6	23.1	16.6	23.6	66.6	126	123	66.7	40.8	32.2	23.7	20.1	48.3	1982
1983	16.3	16.3	14.0	14.6	26.3	46.6	71.3	62.2	46.4	33.6	16.7	11.6	30.6	1983
1984	11.6	12.6	10.7	17.3	28.0	64.6	72.6	60.0	28.2	23.0	23.6	28.2	30.2	1984
MEAN	23.9 R	18.7 R	13.6 R	15.6 R	36.3 R	78.2R	78.2R	54.8R	42.6 R	40.6 R	36.0 R	29.6 R	38.2	MEAN

LOCATION - LAT 52 12 10 N
LONG 98 08 10 W NATURAL FLOW

R - REVISED SINCE JAN 1980

BERENS RIVER AT OUTLET OF LONG LAKE - STATION NO. OSRD007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	36.2 ON AUG 11	4.80 ON MAR 27	823 000	1958
1959	---	248 ON JUN 9 *	9.57 ON APR 9	1 810 000	1959
1960	---	79.6 ON JUN 23	8.30 ON APR 19	847 000	1960
1961	---	35.1 ON JUN 16	4.61 ON NOV 5	442 000	1961
1962	---	65.6 ON JUN 29	4.59 ON MAY 1	830 000	1962
1963	---	127 ON JUN 25	5.97 ON DEC 9	1 130 000	1963
1964	---	81.3 ON JUN 11	5.95 ON MAR 19	783 000	1964
1965	---	116 R ON JUL 1	8.63 ON MAR 20	1 180 000R	1965
1966	---	152 ON JUL 5	9.54 ON APR 19	1 240 000R	1966
1967	---	175 ON JUN 23	3.74 ON DEC 6 *	1 170 000	1967
1968	---	144 ON JUL 21	6.27 ON APR 7	2 030 000	1968
1969	---	208 E ON OCT 19	27.7 R ON APR 8	2 680 000	1969
1970	---	77.0E ON JUL 12	16.7 R ON APR 15	1 240 000R	1970
1971	128 AT 17:00 CST ON JUN 3	128 ON JUN 5	16.6 R ON APR 6	1 580 000R	1971
1972	109 AT 21:12 CST ON JUN 13	108 ON JUN 14	12.9 E ON APR 9	1 160 000R	1972
1973	88.5 AT 18:17 CST ON JUL 3	88.2 ON JUL 3	14.7 R ON MAR 21	1 110 000R	1973
1974	173 AT 10:10 CST ON JUN 25	170 ON JUN 23	17.6 R ON APR 13	1 800 000R	1974
1975	107 AT 11:15 CST ON JUN 30	106 ON JUL 1	14.8 E ON MAR 25	1 520 000R	1975
1976	---	43.3 ON JUL 1	5.04E ON DEC 31	853 000R	1976
1977	86.4 AT 18:20 CST ON OCT 19	86.1 ON OCT 19	4.87 ON JAN 30	880 000	1977
1978	108 AT 10:43 CST ON AUG 17	108 ON AUG 17	14.4 E ON MAR 23	1 880 000	1978
1979	198 AT 21:12 CST ON JUN 14 *	188 ON JUN 11	16.9 E ON MAR 21	1 880 000	1979
1980	47.5 AT 12:17 CST ON JUL 6	46.9 ON JUL 6	18.4 E ON APR 5	872 000	1980
1981	56.6 AT 11:46 CST ON JUL 6	50.4 ON JUL 4	10.7 E ON MAR 26	833 000	1981
1982	152 AT 19:21 CST ON JUN 25	151 ON JUN 24	16.8 E ON APR 12	1 580 000	1982
1983	91.0 AT 16:12 CST ON JUN 28	90.8 ON JUL 1	10.8 ON DEC 22	863 000	1983
1984	76.2 AT 17:41 CST ON JUL 4	76.1 ON JUL 5	9.80E ON MAR 26	957 000	1984
				1 240 000R	MEAN

E - ESTIMATED R - REVISED SINCE JAN 1980

BIG GRASS RIVER NEAR GLENELLA - STATION NO. OSLL015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	4.22	3.52	1.85	0.480	0.207	2.88	0.712	---	---	1.70	1965
1966	---	---	0.780	8.80	5.88	1.22	0.410	0.498	0.130	0.054	---	---	2.18	1966
1967	---	---	0.002	10.0	5.03	0.487	0.412	0.041	0	0	---	---	1.88	1967
1968	---	---	0.459	2.72	2.54	0.465	0.534	1.33	0.740	0.315	---	---	1.14	1968
1969	---	---	0	21.1	3.29	2.51	5.85	0.540	0.208	0.227	---	---	4.14	1969
1970	---	---	0	12.1	24.3	2.08	1.25	0.052	0.001	0.210	---	---	5.00	1970
1971	---	---	0.001	4.88	1.09	5.35	5.17	0.185	0.049	1.01	---	---	2.69	1971
1972	---	---	1.24	14.1	3.73	0.489	0.038	0	0	0	---	---	2.42	1972
1973	---	---	0.336	0.351	0.384	0.593	0.013	0	0.021	0.002	---	---	0.211	1973
1974	---	---	0	15.6	14.3	1.81	0.108	0	0	0	---	---	3.86	1974
1975	---	---	0	2.73	3.21	1.88	0.328	3.85	23.1	5.12	---	---	4.93	1975
1976	---	---	0.188	51.5	2.48	1.04	0.227	0	0	0	---	---	5.78	1976
1977	---	---	0	0.271	0.373	0.144	0.141	0	0.248	0.137	---	---	0.184	1977
1978	---	---	0	3.02	1.44	0.400	0.048	0	0.014	0.013	---	---	0.611	1978
1979	---	---	0	20.8	22.0	2.40	0.225	0.013	0.008	0.001	---	---	5.62	1979
1980	---	---	0	1.14	0.098	0.002	0	2.84	1.82	0.728	---	---	0.801	1980
1981	---	---	0.821	0.744	0.488	0.884	0.328	0.094	0.003	0.189	---	---	0.373	1981
1982	---	---	0.038	7.74	1.83	0.412	0.751	0.187	0.008	0.188	---	---	1.35	1982
1983	---	---	0.003	12.2	2.87	1.07	0.387	0.008	0	0	---	---	2.04	1983
1984	---	---	0.109	0.370	0.577	1.23	0.287	0	0	0.190	---	---	0.340	1984
MEAN	---	---	0.188	8.70	4.85	1.48	0.884	0.474	1.48	0.453	---	---	2.42	MEAN

LOCATION - LAT 50 30 22 N LONG 98 58 15 W DRAINAGE AREA, 1 050 km^2 NATURAL FLOW

BIG GRASS RIVER NEAR GLENELLA - STATION NO. OSLL015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	18.0 ON APR 18	0B ON MAR 1 *	38 000	1965
1966	---	28.8 ON APR 3	0B ON MAR 1	45 800	1966
1967	---	41.8 ON APR 17	0B ON MAR 1	41 800	1967
1968	---	7.70 ON MAY 18	0B ON MAR 1	24 100	1968
1969	---	83.5 ON APR 14	0B ON MAR 1	87 800	1969
1970	---	106 ON APR 30	0B ON MAR 1	106 000	1970
1971	---	38.2 ON JUL 2	0 ON AUG 17	57 000	1971
1972	---	28.8 ON APR 15	0 ON JUL 8	81 300	1972
1973	3.84 AT 14:42 CST ON JUN 20	3.67 ON JUN 20	0 ON JUL 8	4 480	1973
1974	88.7 B AT 17:45 CST ON APR 20	83.1 ON APR 21	0B ON MAR 1	83 700	1974
1975	80.7 AT 17:33 CST ON SEP 23	78.4 ON SEP 23	0B ON MAR 1	104 000	1975
1976	112 AT 08:18 CST ON APR 10 *	111 ON APR 10 *	0 ON AUG 4	143 000	1976
1977	2.44 AT 00:57 CST ON SEP 27	2.30 ON SEP 27	0B ON MAR 1	3 480	1977
1978	9.00 AT 17:00 CST ON APR 25	8.52 ON APR 25	0B ON MAR 1	12 800	1978
1979	98.8 AT 14:08 CST ON APR 26	97.2 ON APR 26	0B ON MAR 1	118 000	1979
1980	19.6 AT 10:36 CST ON AUG 22	19.0 ON AUG 22	0B ON MAR 1	17 000	1980
1981	---	1.32B ON APR 4	0 ON SEP 11	7 800	1981
1982	26.0 AT 00:03 CST ON APR 16	25.6 ON APR 16	0B ON MAR 1	28 700	1982
1983	---	33.6 B ON APR 12	0B ON MAR 1	43 200	1983
1984	8.01 AT 10:37 CST ON JUN 24	8.76 ON JUN 24	0B ON MAR 1	7 310	1984
				81 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BIRCH RIVER AT BIRCH RIVER - STATION NO. 05LE003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	6.43	4.08	1.38	1.02	1.59	0.887	---	---	---	1954
1955	---	---	---	2.10	2.37	0.805	0.336	0.334	0.273	0.377	---	---	---	1955
1956	---	---	0.265	0.340	3.68	1.57	1.63	0.269	0.206	0.238	---	---	1.05	1956
1957	---	---	0.129	1.04	3.07	0.880	0.383	0.277	0.640R	0.207R	---	---	0.814R	1957
1958	---	---	0.188	0.838	0.668	0.519	2.85	0.184	0.203	0.278	---	---	0.701	1958
1959	---	---	0.028	0.898	1.19	1.01	0.557	0.180	0.573	0.488	---	---	0.615	1959
1960	---	---	0.231	0.858	3.19	1.72	0.814	0.871	0.210R	0.158R	---	---	0.881R	1960
1961	---	---	0.028	0.043	0.306	0.178R	0.128R	0.126R	0.186R	0.183R	---	---	0.144R	1961
1962	---	---	0	0.180	0.827	0.263	0.213	0.218	0.420	0.311	---	---	0.278	1962
1963	---	---	0	0.294	1.97	2.10	0.527	0.265	0.334	0.357	---	---	0.730	1963
1964	---	---	---	0.468	1.27	0.311	0.585	0.778	0.474	0.484	---	---	---	1964
1965	---	---	0	0.786	3.50	4.23	1.11	0.537	1.89	0.632	---	---	1.60	1965
1966	---	---	0.170	0.374	3.34	1.88	1.73	1.80	2.01	---	---	---	---	1966
1967	---	---	0.224	0.238	5.56	1.28	0.166	0.126	0.088	0.368	---	---	1.01	1967
1968	---	---	0.208	0.408	0.668	1.84	2.71	2.88	0.614	0.551	---	---	1.28	1968
1969	---	---	0.248	2.08	0.912	0.852	0.945	0.490	0.380	2.89	---	---	1.06	1969
1970	---	---	0.080	0.418	3.68	1.80	1.53	0.338	0.248	1.21	---	---	1.17	1970
1971	---	---	0.180	1.81	1.18	1.93	0.618	0.358	0.214	0.472	---	---	0.814	1971
1972	---	---	0.218	0.827	4.58	0.715	0.690	0.260	0.253	0.282	---	---	1.01	1972
MEAN	---	---	0.136	0.775	2.57	1.45 R	0.870R	0.591R	0.578R	0.566R	---	---	0.884	MEAN

LOCATION - LAT 52 22 54 N DRAINAGE AREA, 131 km²
LONG 101 08 02 W NATURAL FLOW

R - REVISED SINCE JAN 1980

BIRCH RIVER AT BIRCH RIVER - STATION NO. 05LE003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	---	---	---	1954
1955	---	5.61 ON MAY 3	---	---	1955
1956	---	10.1 ON MAY 18	0.142 ON AUG 18	22 300	1956
1957	---	8.16 ON MAY 1	0.1138 ON MAR 1	17 200R	1957
1958	---	15.1 ON JUL 5	0.113 ON AUG 15	14 900	1958
1959	---	4.81 ON APR 26	0.0288 ON MAR 1	13 000	1959
1960	---	8.06 ON MAY 24	0.156RE ON SEP 5	20 600R	1960
1961	---	0.366 ON MAY 5	0.0288 ON MAR 1	3 040R	1961
1962	---	2.23 ON MAY 1	0 E ON MAR 1 *	5 810	1962
1963	---	4.84 ON JUN 15	0 E ON MAR 1	15 500	1963
1964	---	3.48 ON MAY 11	---	---	1964
1965	---	10.1 ON JUN 3	0 E ON MAR 1	34 000	1965
1966	---	10.5 ON AUG 30	---	---	1966
1967	---	15.4 ON MAY 26	0.011 ON JUL 11	21 500	1967
1968	---	20.2 ON JUL 30 *	0.1708 ON MAR 18	27 000	1968
1969	---	6.74 ON OCT 4	0.227 ON SEP 18	22 300	1969
1970	---	5.44 ON MAY 7	0.0088 ON MAR 1	24 700	1970
1971	---	5.69 ON JUN 10	0.176 ON SEP 25	17 200	1971
1972	---	10.8 ON MAY 2	0.176 ON OCT 31	21 500	1972
				15 700R	MEAN

E - ESTIMATED
R - REVISED SINCE JAN 1980

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BIRCH RIVER NEAR BIRCH RIVER - STATION NO. 05LE010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	0.231	0.189	1.88	4.44	0.737	0.302	0.480	0.643	---	---	1.10	1973
1974	---	---	0.181	1.40	8.44	1.78	0.858	0.670	1.27	0.712	---	---	1.88	1974
1975	---	---	0.238	0.872	3.87	2.42	0.818	0.435	0.704	0.787	---	---	1.28	1975
1976	---	---	0.218	1.27	0.588	1.78	0.710	0.421	0.224	0.276	---	---	0.684	1976
1977	---	---	0.208	0.682	0.508	0.285	---	1.08	2.52	1.08	---	---	---	1977
1978	---	---	0.183	0.822	1.37	0.726	0.671	0.188	0.684	0.577	---	---	0.652	1978
1979	---	---	0.183	0.884	8.41	2.82	0.360	0.123	0.218	0.415	---	---	1.41	1979
1980	---	---	0.072	0.800	0.327	0.322	0.377	2.48	2.00	0.812	---	---	0.906	1980
1981	---	---	0.230	0.851	1.10	0.886	1.00	2.27	0.800	2.15	---	---	1.15	1981
1982	---	---	0.088	0.778	1.21	1.06	2.18	0.475	0.311	0.777	---	---	0.886	1982
1983	---	---	0.217	3.86	4.42	3.18	2.16	0.339	1.04	0.765	---	---	1.86	1983
1984	---	---	0.291	3.87	4.74	3.33	0.383	0.212	0.502	1.84	---	---	1.87	1984
MEAN	---	---	0.194	1.38	2.87	1.83	0.831	0.765	0.880	0.883	---	---	1.22	MEAN

LOCATION - LAT 52 22 25 N DRAINAGE AREA, 136 km²
LONG 101 05 00 W NATURAL FLOW

BIRCH RIVER NEAR BIRCH RIVER - STATION NO. 05LE010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	10.6 AT 02:30 CST ON JUN 4	10.2 ON JUN 4	0.0888 ON APR 18	23 200	1973
1974	12.8 AT 04:34 CST ON MAY 22	11.8 ON MAY 22	0.142 ON AUG 11	33 000	1974
1975	8.47 AT 01:16 CST ON MAY 8	7.90 ON MAY 8	0.153 ON JUL 30	27 100	1975
1976	5.04 AT 17:20 CST ON JUN 26	4.90 ON JUN 26	0.133 ON AUG 8	14 500	1976
1977	5.48 AT 16:02 CST ON SEP 26	4.78 ON SEP 26	---	---	1977
1978	3.37 AT 19:14 CST ON APR 29	2.73 ON MAY 2	0.108 ON AUG 29	13 800	1978
1979	22.8 AT 03:15 CST ON MAY 26 *	21.0 ON MAY 26 *	0 ON SEP 17 *	30 000	1979
1980	11.1 AT 09:12 CST ON SEP 4	7.33 ON SEP 4	0.0568 ON MAR 1	19 200	1980
1981	8.83 AT 22:35 CST ON AUG 4	7.83 ON AUG 4	0.053 ON SEP 10	24 400	1981
1982	15.9 AT 21:40 CST ON JUL 17	11.5 ON JUL 18	0 ON JUL 1	18 300	1982
1983	---	19.2 B ON APR 25	0.135 ON AUG 7	41 200	1983
1984	10.6 AT 18:40 CST ON JUN 7	8.96 ON MAY 19	0.026 ON AUG 31	38 600	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		28 800	MEAN

BIRD RIVER AT OUTLET OF BIRD LAKE - STATION NO. 05PJ001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	---	---	26.1	17.8	5.43	2.74	2.07	1.54	1.58	1.75	---	1980
1981	1.67	1.68	---	---	9.15	5.91	2.83	1.47	0.636	0.387	1.13	1.59	---	1981
1982	1.92	1.84	1.52	3.13	14.0	17.6	12.2	11.4	14.3	7.07	4.22	6.46	9.04	1982
1983	4.11	4.33	---	11.2	17.2	15.7	12.4	5.83	5.29	4.55	1.86	1.79	---	1983
1984	1.33	1.83	2.28	5.44	26.4	11.7	3.85	2.79	11.0	10.0	3.43	3.11	11.7	1984
1985	3.62	2.87	1.80	5.05	28.4	14.9	5.34	3.81	2.15	2.87	4.01	4.57	13.3	1985
1986	4.20	3.87	3.98	5.00	20.2	16.7	6.88	2.71	2.92	2.14	2.48	2.98	12.5	1986
1987	3.40	3.54	3.08	5.96	22.2	11.1	4.87	2.68	0.813	0.213	0.172	0.208	11.6	1987
1988	0.480	0.805	0.885	2.62	5.61	10.4	5.13	5.11	5.85	5.49	5.74	5.38	4.78	1988
1989	4.81	4.78	3.78	5.19	9.89	6.77	7.36	5.19	4.43	5.82	7.81	5.41	7.16	1989
1970	4.32	3.80	3.40	4.82	18.3	21.5	5.43	5.25	4.47	5.58	10.2	5.48	12.2	1970
1971	5.76	4.24	3.28	5.40	16.8	6.12	4.45	1.68	1.58	1.93	4.35	4.76	5.40	1971
1972	3.98	3.38	3.03	5.60	12.8	7.71	5.02	2.60	2.36	2.04	4.33	4.51	7.24	1972
1973	3.73	3.01	2.66	5.42	8.39	7.30	7.13	7.30	11.1	13.6	11.6	8.21	6.19	1973
1974	5.29	4.87	3.83	10.2	47.5	28.6	8.11	4.22	11.2	7.52	4.68	3.72	22.8	1974
1975	3.08	3.04	2.88	4.74	13.2	10.1	5.31	2.87	2.05	1.61	1.10	0.978	7.74	1975
1976	1.28	1.67	1.88	5.84	11.5	10.8	7.48	2.17	0.817	0.140	0.041	0.101	7.78	1976
1977	0.108	0.188	0.318	0.584	1.89	5.62	5.71	5.52	10.2	5.71	5.73	5.44	2.08	1977
1978	4.48	3.51	2.84	5.73	18.6	14.7	12.3	5.84	3.72	2.00	1.15	0.817	10.4	1978
1979	---	---	1.14	5.18	22.2	18.8	7.08	3.80	1.73	0.676	---	---	11.3	1979
1980	---	---	2.10	5.82	8.33	4.22	1.78	0.823	0.884	2.71	---	---	5.07	1980
1981	---	---	1.63	3.08	2.27	4.10	---	---	---	---	---	---	2.58	1981
1982	---	---	1.77	4.88	10.6	11.3	---	---	---	---	---	---	7.08	1982
1983	---	---	1.78	3.03	5.87	8.58	---	---	---	---	---	---	4.25	1983
1984	---	---	1.01	4.41	8.28	12.8	---	---	---	---	---	---	6.83	1984
MEAN	3.21	2.94	2.31	5.88	15.4	12.0	7.15	4.21	4.88	4.64	4.17	3.75	8.77	MEAN

LOCATION - LAT 50 27 48 N DRAINAGE AREA, 1 070 km^2
LONG 95 24 50 W NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

BIRD RIVER AT OUTLET OF BIRD LAKE - STATION NO. 05PJ001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	30.9 E ON JUN 2	---	---	1980
1981	---	---	---	---	1981
1982	---	23.6 ON JUN 1	1.44 E ON MAR 1	95 300	1982
1983	---	19.9 ON MAY 24	---	---	1983
1984	---	33.7 ON MAY 12	1.98 E ON MAR 1	124 000	1984
1985	---	33.4 E ON MAY 7	1.33 E ON MAR 1	141 000	1985
1986	---	26.3 ON MAY 28	3.77 E ON MAR 8	131 000	1986
1987	---	24.2 ON MAY 12	2.72 E ON APR 3	122 000	1987
1988	13.0 AT 15:10 CST ON JUN 20	12.5 ON JUN 15	0.481E ON MAR 12	50 500	1988
1989	14.4 AT 02:46 CST ON APR 26	13.9 ON APR 26	3.17 ON APR 7	75 600	1989
1970	---	28.7 E ON JUN 3	3.11 E ON APR 1	138 000	1970
1971	20.5 AT 07:00 CST ON MAY 7	20.1 ON MAY 6	3.08 ON MAR 28	88 100	1971
1972	13.4 AT 01:42 CST ON MAY 12	13.2 ON MAY 8	2.83 ON APR 9	78 300	1972
1973	---	8.71 ON APR 27	2.40 ON MAR 21	85 200	1973
1974	---	68.7 A ON MAY 26 *	3.37 ON APR 10	241 000	1974
1975	14.3 AT 04:43 CST ON MAY 19	14.3 ON MAY 19	2.73 ON APR 12	81 800	1975
1976	15.4 AT 17:00 CST ON JUN 18	14.8 ON JUN 18	1.70 ON MAR 1	83 000	1976
1977	---	10.7 ON JUN 24	0.275 ON MAR 1 *	21 800	1977
1978	20.3 AT 02:27 CST ON MAY 19	18.8 ON MAY 18	2.25 ON MAR 30	110 000	1978
1979	24.8 AT 08:14 CST ON MAY 19 *	24.4 ON MAY 19	0.872 ON MAR 11	120 000	1979
1980	11.4 AT 11:51 CST ON APR 28	11.3 ON APR 28	1.86 ON APR 4	53 400	1980
1981	---	8.74 ON JUN 30	1.75 ON MAR 23	27 000	1981
1982	13.6 AT 13:46 CST ON JUN 14	13.6 ON JUN 14	1.34 B ON MAR 21	74 600	1982
1983	8.87 AT 18:00 CST ON JUN 28	8.82 ON JUN 28	1.31 B ON MAR 1	44 800	1983
1984	17.2 AT 21:36 CST ON JUN 22	16.3 ON JUN 20	0.8078 ON MAR 12	89 700	1984
A - MANUAL GAUGE (SEE REFERENCE INDEX)	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		93 500	MEAN

BIRDTAIL CREEK AT BIRTLE - STATION NO. 05ME002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	5.23	1.72	0.383	0.211	0.237	0.532	0.283	0.142	---	1914
1915	0	0	0	1.28	0.720	0.959	1.37	0.142	0.685	1.42	1.26	0.566	0.704	1915
1916	0	0	0	8.22	2.82	8.78	8.34	0.849	0.826	1.21	0.826	0.343	2.60	1916
1917	0.283	0	0	5.21	8.46	2.12	1.44	0.062	0.081	0.181	0.121	0.061	1.34	1917
1924	---	---	---	---	---	---	---	---	---	2.34	---	---	---	1924
1925	---	---	---	19.3	4.82	5.15	---	---	---	---	---	---	---	1925
1926	---	---	---	5.10	2.01	1.38	1.33	0.192	0.974	---	---	---	---	1926
1928	---	---	---	---	4.83	5.82	5.43	1.41	0.558	---	---	---	---	1928
MEAN	0.094	0	0	7.82	4.02	4.53	2.71	0.478	0.527	1.13	0.653	0.278	1.81	MEAN

LOCATION - LAT 50 25 15 N LONG 101 02 40 W DRAINAGE AREA, 1 320 km² NATURAL FLOW

BIRDTAIL CREEK AT BIRTLE - STATION NO. 05ME002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1914	---	---	---	---	1914
1915	---	2.46 ON JUL 30	0E ON JAN 1 *	22 200	1915
1916	---	18.5 ON APR 17 *	0E ON JAN 1	79 100	1916
1917	---	15.6 ON APR 27	0E ON FEB 1	42 100	1917
1924	---	---	---	---	1924
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1928	---	---	---	---	1928
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		47 800	MEAN

BIRDTAIL CREEK NEAR BIRTLE - STATION NO. 05ME003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1953	---	---	---	---	---	---	---	2.38	1.04	0.974	1.62	---	---	1953
1954	---	---	0	5.48	5.31	9.30	8.09	1.86	3.80	4.78	1.88	---	4.98	1954
1955	---	---	0.080	18.9	13.5	7.83	3.19	0.678	0.442	0.589	---	---	5.36	1955
1956	---	---	0	3.78	17.3	8.02	8.07	1.86	1.67	1.28	---	---	5.19	1956
1957	---	---	1.11	6.70	8.16	1.77	0.555	0.648	0.386	0.407	---	---	2.21	1957
1958	---	---	0.223	2.84	0.635	0.281	0.300	0.010	0	0.054	---	---	0.548	1958
1959	---	---	0.088	1.22	1.03	1.10	1.28	0.174	0.409	1.83	---	---	0.678	1959
1960	---	---	0.011	8.49	5.46	4.49	0.231	0.018	0	0	---	---	2.44	1960
1961	---	---	0.003	0.898	1.25	0.082	0	0	0	0	---	---	0.279	1961
1962	---	---	0	1.87	0.574	0.223	0.088	0.018	0.008	0.018	---	---	0.334	1962
1963	---	---	0.886	2.02	0.604	1.12	0.377	0.268	0.187	0.107	---	---	0.887	1963
1964	---	---	0	3.80	3.11	0.577	0.052	0.032	0.001	0.003	---	---	0.893	1964
1965	---	---	0	3.96	3.62	1.81	0.351	0.032	1.05	0.770	---	---	1.44	1965
1966	---	---	0.344	8.88	8.60	1.83	3.10	0.594	0.111	0.268	---	---	2.40	1966
1967	---	---	0.080	4.03	7.84	1.03	0.288	0.097	0.003	0.077	---	---	1.66	1967
1968	---	---	1.32	2.83	0.635	0.221	0.270	0.435	0.199	0.184	---	---	0.759	1968
1969	---	---	0.086	8.86	1.22	0.602	3.19	0.894	0.138	0.488	---	---	1.90	1969
1970	---	---	0.193	4.98	18.8	2.54	1.85	0.828	0.428	0.807	---	---	3.85	1970
1971	---	---	0	8.83	1.84	8.08	2.86	1.22	0.327	1.88	---	---	2.84	1971
1972	---	---	0.308	14.8	8.18	0.880	0.087	0.142	0.068	0.084	---	---	2.74	1972
1973	---	---	0.487	1.08	0.718	1.08	0.203	0.027	0.618	1.31	---	---	0.889	1973
1974	---	---	0.202	14.2	18.8	4.08	0.358	0.130	0.214	0.364	---	---	4.73	1974
1975	---	---	0.181	8.18	8.18	2.88	0.881	1.08	8.87	4.27	---	---	3.82	1975
1976	---	---	0.803	20.8	4.80	8.07	2.21	0.443	0.344	0.858	---	---	4.38	1976
1977	---	---	0.382	1.80	2.08	0.877	1.43	0.810	1.08	1.38	---	---	1.17	1977
1978	---	---	0.287	7.37	3.31	1.14	0.424	0.078	0.628	0.838	---	---	1.74	1978
1979	---	---	0.131	12.1	17.6	8.48	0.488	0.071	0.007	0.081	---	---	4.48	1979
1980	---	---	0.006	3.18	0.872	0.022	0.338	0.831	0.301	0.858	---	---	0.734	1980
1981	---	---	1.18	1.72	0.857	1.83	0.148	0.038	0.059	0.022	---	---	0.703	1981
1982	---	---	0.013	3.71	1.88	0.288	0.019	0.022	0.001	0.704	---	---	0.785	1982
1983	---	---	0.002	7.25	8.08	2.08	1.78	0.188	0.001	0.002	---	---	2.18	1983
1984	---	---	0.826	1.87	1.84	1.27	0.188	0	0	0.183	---	---	0.678	1984
MEAN	---	---	0.271	8.17	8.36	2.48	1.37	0.488	0.818	0.775	1.74	---	2.18	MEAN

LOCATION - LAT 50 31 50 N LONG 100 57 00 W DRAINAGE AREA, 1 120 km² NATURAL FLOW

BIRDTAIL CREEK NEAR BIRTLE - STATION NO. 05ME003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1953	---	---	---	---	1953
1954	---	15.9 ON JUL 7	0 B ON MAR 1 *	105 000	1954
1955	---	30.3 ON APR 11	0 B ON MAR 1	114 000	1955
1956	---	30.8 ON MAY 13	0 B ON MAR 1	110 000	1956
1957	---	23.8 ON APR 27	0.1428 ON MAR 1	45 700	1957
1958	---	6.188 ON APR 4	0 B ON MAR 1	11 800	1958
1959	---	7.85 ON JUL 4	0 B ON MAR 1	18 800	1959
1960	---	18.5 B ON APR 12	0 ON AUG 18	51 700	1960
1961	---	4.42 ON APR 28	0 B ON MAR 1	5 810	1961
1962	---	8.34 ON APR 20	0 ON MAR 1	7 070	1962
1963	---	4.308 ON APR 8	0 B ON MAR 1	14 100	1963
1964	---	8.178 ON APR 18	0 B ON MAR 1	20 200	1964
1965	---	11.5 B ON APR 15	0 B ON MAR 1	30 500	1965
1966	---	11.4 B ON APR 4	0.017 ON SEP 28	50 800	1966
1967	---	13.6 ON MAY 12	0 ON AUG 31	35 500	1967
1968	---	7.828 ON MAR 30	0.074 ON SEP 30	15 100	1968
1969	---	21.0 ON APR 17	0 ON SEP 20	40 200	1969
1970	---	43.8 ON MAY 5	0.037 ON SEP 10	75 100	1970
1971	---	21.4 B ON APR 13	0 B ON MAR 1	62 200	1971
1972	---	41.1 ON APR 23	0.022 ON JUL 20	57 900	1972
1973	---	3.08 ON OCT 7	0.001 ON AUG 18	14 200	1973
1974	48.4 AT 00:03 CST ON APR 22	43.0 ON APR 22	0.088 ON AUG 13	100 000	1974
1975	28.7 AT 08:36 CST ON MAY 1	28.2 ON MAY 1	0.078 ON AUG 4	78 800	1975
1976	49.6 AT 03:16 CST ON APR 11	46.2 ON APR 11	0.130 ON SEP 18	92 800	1976
1977	4.38 AT 11:55 CST ON MAY 8	4.33 ON MAY 8	0.022 ON AUG 29	24 800	1977
1978	---	12.6 ON APR 21	0 ON AUG 12	38 800	1978
1979	50.9 B AT 20:30 CST ON APR 21 *	46.7 B ON APR 21 *	0 ON AUG 31	94 300	1979
1980	---	5.318 ON APR 14	0 ON JUN 11	15 800	1980
1981	7.86 AT 14:17 CST ON APR 1	5.70 ON APR 1	0 ON AUG 3	14 800	1981
1982	8.958 AT 17:57 CST ON APR 20	8.878 ON APR 21	0 B ON MAR 1	18 800	1982
1983	---	21.5 B ON APR 22	0 B ON MAR 1	45 800	1983
1984	3.84 AT 21:24 CST ON JUN 24	3.84 ON JUN 25	0 ON AUG 7	14 400	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		45 800	MEAN

BIRNIE CREEK NEAR BIRNIE - STATION NO. 05LL017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0.081	1.72	0.742	1.02	0.818	0.188	0.109	0.147	---	---	0.588	1969
1970	---	---	0.057	0.844	3.28	0.388	0.257	0.056	0.101	0.121	---	---	0.654	1970
1971	---	---	0.018	1.36	0.271	0.054	0.338	0.080	0.100	0.290	---	---	0.422	1971
1972	---	---	0.032	1.22	0.484	0.163	0.048	0.028	0.018	0.032	---	---	0.250	1972
1973	---	---	0.118	0.183	0.178	0.185	0.012	0.017	0.048	0.080	---	---	0.100	1973
1974	---	---	0.016	1.27	1.46	0.343	0.085	0.029	0.048	0.048	---	---	0.408	1974
1975	---	---	0.011	0.827	0.883	0.848	0.158	0.880	1.50	0.400	---	---	0.808	1975
1976	---	---	0.112	2.02	0.388	0.388	0.081	0.023	0.005	0.047	---	---	0.372	1976
1977	---	---	0.028	0.114	0.200	0.113	0.083	0.005	0.224	0.078	---	---	0.105	1977
1978	---	---	0.038	0.721	0.240	0.132	0.028	0	0.082	0.041	---	---	0.188	1978
1979	---	---	0.027	0.852	2.83	0.487	0.124	0.081	0.048	0.088	---	---	0.648	1979
1980	---	---	0.022	0.258	0.041	0.001	0.015	0.288	0.137	0.138	---	---	0.109	1980
1981	---	0.078	0.213	0.205	0.084	0.172	0.032	0.002	0.023	0.105	---	---	0.108	1981
1982	---	---	0.001	1.01	0.158	0.085	0.285	0.030	0.017	0.117	---	---	0.210	1982
1983	---	---	0.021	0.882	0.478	0.288	0.128	0.003	0	0.018	---	---	0.231	1983
1984	---	---	0.087	0.308	0.208	0.387	0.008	0	0.008	0.207	---	---	0.134	1984
MEAN	---	0.078	0.051	0.870	0.713	0.348	0.188	0.108	0.183	0.123	---	---	0.313	MEAN

LOCATION - LAT 50 28 50 N DRAINAGE AREA, 82.8 km^2
LONG 98 27 00 W NATURAL FLOW

BIRNIE CREEK NEAR BIRNIE - STATION NO. 05LL017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	10.7 ON JUN 27	0.028 ON SEP 14	12 800	1969
1970	15.3 AT 03:50 CST ON MAY 7 *	12.8 ON MAY 7 *	0.082 ON AUG 19	13 800	1970
1971	6.43 AT 20:53 CST ON JUN 6	6.03 ON APR 20	0.0188 ON MAR 1	8 940	1971
1972	---	4.13 ON APR 22	0 ON AUG 27 *	5 290	1972
1973	1.51 AT 11:19 CST ON OCT 4	0.833 ON MAY 7	0 ON JUL 12	3 110	1973
1974	8.34 AT 03:38 CST ON MAY 12	8.77 ON MAY 12	0.0148 ON MAR 1	8 648	1974
1975	14.8 AT 10:06 CST ON SEP 18	10.8 ON SEP 18	0.0118 ON MAR 1	12 800	1975
1976	---	5.32 ON APR 10	0 ON AUG 24	7 880	1976
1977	1.42 AT 00:36 CST ON SEP 28	1.27 ON SEP 28	0 ON JUL 8	2 210	1977
1978	3.37 AT 21:58 CST ON APR 24	1.98 ON APR 18	0 A ON AUG 1	3 300	1978
1979	14.8 AT 08:30 CST ON MAY 17	11.7 ON MAY 17	0 ON AUG 30	11 500	1979
1980	3.84 AT 04:48 CST ON AUG 21	3.18 ON AUG 21	0 ON MAY 29	2 320	1980
1981	1.14 AT 17:42 CST ON APR 1	0.880 ON MAR 31	0 ON JUL 27	2 230	1981
1982	---	3.95 B ON APR 15	0 B ON MAR 1	4 480	1982
1983	---	5.25 E ON APR 24	0 ON AUG 8	4 880	1983
1984	4.78 AT 08:28 CST ON JUN 23	3.88 ON JUN 23	0 B ON MAR 1	2 830	1984
	A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		8 330	MEAN

BLACK RIVER NEAR MANIGOTAGAN - STATION NO. 05RA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0.510	12.4	16.6	5.30	0.881	0.778	0.834	0.234	0.804	0.231	---	1980
1981	0.153	0.138	0.486	8.48	10.7	2.76	0.140	0.035	0.024	0.090	0.151	0.189	1.98	1981
1982	0.181	0.184	0.285	4.01	17.1	10.7	5.32	12.9	8.74	2.80	2.53	3.74	6.24	1982
1983	0.818	1.02	0.789	14.3	15.8	15.3	3.45	4.81	1.87	0.835	0.490	0.241	4.95	1983
1984	0.074	0.161	0.174	7.47	29.6	4.97	4.45	5.38	13.0	5.65	1.62	0.785	8.19	1984
1985	0.830	0.462	0.529	10.7	24.0	9.92	2.97	1.30	1.14	2.48	2.18	1.24	4.82	1985
1986	0.895	0.881	0.806	11.4	19.6	10.6	3.96	0.462	0.031	0.190	1.37	1.58	4.29	1986
1987	1.21	0.867	0.658	15.1	17.6	4.81	0.860	0.917	0.102	0.049	0.262	0.105	3.53	1987
1988	0.043	0.047	0.122	3.28	12.4	9.13	5.13	7.21	10.5	5.28	3.77	1.15	4.83	1988
1989	0.829	0.763	0.767	12.0	8.58	5.89	4.85	1.23	0.984	4.31	2.18	0.725	3.58	1989
1990	0.387	0.508	0.478	4.87	18.6	10.0	2.28	0.507	0.187	2.88	5.10	2.01	3.80	1990
1991	1.08	0.704	0.867	14.5	11.2	2.02	2.01	0.241	0.081	0.836	1.75	1.58	3.03	1991
1992	0.870	0.598	0.205	10.4	11.1	1.44	0.588	0.859	1.31	1.83	1.82	0.922	2.82	1992
1993	0.851	0.883	0.884	8.04	8.51	15.3	3.05	3.32	2.44	8.36	5.71	3.14	4.71	1993
1994	1.30	0.873	0.898	16.1	31.8	7.16	0.407	0.095	2.00	1.16	1.00	0.885	5.45	1994
1995	0.831	0.858	0.487	4.19	9.78	3.86	1.54	2.47	2.58	1.61	1.13	0.267	2.43	1995
1996	0.184	0.208	0.288	11.0	8.19	2.81	1.82	0.189	0.048	0.010	0.018	0.023	1.89	1996
1997	0.018	0.021	0.080	0.772	0.586	3.44	5.88	5.83	17.6	5.33	2.38	1.16	3.55	1997
1998	0.581	0.381	0.387	8.29	14.4	9.83	8.30	2.09	1.08	0.808	0.471	0.186	3.88	1998
1999	0.146	0.117	0.227	12.8	25.6	14.7	1.35	0.442	0.345	0.232	0.323	0.318	4.73	1999
2000	0.314	0.322	0.262	6.63	5.81	0.737	0.288	0.084	1.31	3.46	1.98	0.735	1.83	2000
2001	0.548	0.472	0.477	0.582	0.913	4.82	3.05	4.12	2.84	2.39	2.87	1.25	2.00	2001
2002	0.358	0.285	0.264	7.34	9.56	5.27	5.32	2.31	0.514	1.33	0.978	0.622	2.88	2002
2003	0.414	0.322	0.410	2.48	5.89	7.66	4.83	0.484	0.088	0.151	0.248	0.201	1.85	2003
2004	0.187	0.173	0.178	2.91	4.37	7.51	3.31	0.837	0.203	3.00	5.18	1.70	2.64	2004
MEAN	0.515	0.433	0.422	8.38	13.3	7.26	3.02	2.35	2.77	2.26	1.88	0.991	3.68	MEAN

LOCATION - LAT 50 51 42 N DRAINAGE AREA, 712 km²
LONG 98 15 10 W NATURAL FLOW

BLACK RIVER NEAR MANIGOTAGAN - STATION NO. 05RA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1980	---	32.3 ON APR 22	---	---	1980
1981	---	26.3 ON APR 24	0.020E ON SEP 16	61 500	1981
1982	---	34.6 ON AUG 30	0.156 ON JAN 1	197 000	1982
1983	---	22.9 ON APR 26	0.106 ON DEC 27	156 000	1983
1984	---	46.4 ON MAY 8	0.048 ON JAN 26	195 000	1984
1985	---	32.6E ON APR 27	0.386E ON MAR 9	152 000	1985
1986	---	21.2 ON MAY 16	0.017 ON SEP 21	135 000	1986
1987	---	31.7E ON APR 28	0 ON SEP 26 *	111 000	1987
1988	27.2 AT 23:00 CST ON AUG 26	25.8 ON AUG 26	0.031B ON JAN 23	158 000	1988
1989	---	24.0 ON APR 17	0.818 ON DEC 26	113 000	1989
1990	21.4 AT 13:51 CST ON JUN 2	21.1 ON JUN 2	0.042 ON SEP 7	120 000	1990
1991	42.2 AT 23:13 CST ON APR 20	40.6 ON APR 21	0 ON SEP 13	98 500	1991
1992	28.4 AT 19:30 CST ON APR 23	26.8 ON APR 23	0 ON APR 1	83 200	1992
1993	59.7 AT 14:37 CST ON JUN 16	56.3 ON JUN 16	0.800 ON MAR 8	148 000	1993
1994	68.8 AT 18:40 CST ON APR 30 *	68.0 ON APR 30 *	0.020 ON AUG 19	172 000	1994
1995	13.8 AT 17:20 CST ON MAY 8	13.8 ON MAY 8	0.181 ON AUG 2	78 800	1995
1996	18.7 AT 18:20 CST ON APR 19	18.5 ON APR 19	0.007 ON OCT 17	88 800	1996
1997	---	40.8A ON SEP 11	0.013B ON JAN 17	112 000	1997
1998	26.0 AT 18:36 CST ON APR 26	25.8 ON APR 27	0.130 ON DEC 26	122 000	1998
1999	41.4 AT 05:13 CST ON JUN 1	41.0 ON JUN 1	0.103B ON FEB 17	149 000	1999
2000	15.8 AT 17:54 CST ON APR 21	15.6 ON APR 22	0.014 ON AUG 7	57 800	2000
2001	12.8 AT 06:27 CST ON AUG 11	12.1 ON AUG 10	0.347 ON MAR 15	63 100	2001
2002	46.1 AT 16:00 CST ON APR 18	32.6B ON APR 18	0.172B ON MAR 7	90 200	2002
2003	13.8 AT 11:13 CST ON JUN 23	13.5 ON JUN 23	0.063 ON SEP 10	61 800	2003
2004	12.5 AT 08:47 CST ON JUN 24	12.4 ON JUN 24	0.111B ON MAR 11	80 400	2004
				115 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BLOODVEIN RIVER ABOVE BLOODVEIN BAY - STATION NO. 05RB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1976	16.1	15.1	14.6	23.7	32.8	43.2	33.4	16.9	8.70	4.67	3.13	2.44	17.8	1976
1977	2.27	2.80	3.32	11.6	10.1	20.4	27.8	39.1	78.6	109	59.0	34.8	33.2	1977
1978	24.1	17.1	13.2	39.2	83.7	88.4	158	118	82.0	62.8	49.6	30.2	66.7	1978
1979	21.2	17.3	16.4	66.2	188	235	79.2	45.2	51.8	36.3	30.0	26.9	70.4	1979
1980	24.9	22.0	19.3	52.7	74.1	48.3	27.5	18.7	43.1	47.2	44.5	30.8	37.6	1980
1981	31.6	18.6	14.6	25.9	37.1	84.3	59.2	46.4	68.6	56.9	55.6	28.1	38.6	1981
1982	17.0	14.7	12.2	64.2	99.6	127	88.2	99.6	44.3	39.4	30.1	19.4	51.6	1982
1983	14.7	13.3	12.9	26.9	61.4	106	122	48.4	23.7	17.1	15.0	9.93	39.7	1983
1984	6.73	6.78	6.92	36.3	80.5	70.4	75.8	43.3	22.7	37.7	58.4	44.8	39.4	1984
MEAN	16.6	14.0	12.8	40.4	72.8	88.1	74.3	48.8	47.7	45.7	38.4	25.0	44.0	MEAN

LOCATION - LAT 51 43 52 N DRAINAGE AREA, 9 080 km²
LONG 98 36 44 W NATURAL FLOW

BLOODVEIN RIVER ABOVE BLOODVEIN BAY - STATION NO. 05RB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1976	---	46.1E ON JUN 27	2.28E ON DEC 30	888 000	1976
1977	---	136 A ON OCT 6	2.21 ON JAN 28 *	1 060 000	1977
1978	198 AT 13:51 CST ON JUL 17	193 ON JUL 17	12.7 B ON MAR 21	2 110 000	1978
1979	373 AT 21:00 CST ON JUN 2 *	372 ON JUN 3 *	16.2 B ON MAR 8	2 220 000	1979
1980	101 AT 18:37 CST ON APR 24	100 ON APR 24	16.2 ON AUG 16	1 180 000	1980
1981	120 AT 08:08 CST ON SEP 6	120 ON SEP 6	13.2 B ON MAR 21	1 260 000	1981
1982	186 AT 12:05 CST ON JUN 9	184 ON JUN 9	11.1 B ON MAR 26	1 620 000	1982
1983	243 AT 14:05 CST ON JUN 26	240 ON JUN 26	7.85B ON DEC 31	1 250 000	1983
1984	83.6 AT 01:16 CST ON JUN 27	82.3 ON JUN 27	8.88B ON MAR 13	1 250 000	1984
				1 380 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOSSHILL CREEK NEAR VIRDEN - STATION NO. 05MG002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.168	0.021	0.008	0	0	0	0	0	---	---	0.022	1959
1960	---	---	0	1.88	0.047	0.007	0	0	0	0	---	---	0.238	1960
1961	---	---	0.017	0.038	0.008	0	0	0	0	0	---	---	0.008	1961
1962	---	---	0	0.136	0.012	0.005	0	0	0	0	---	---	0.019	1962
1963	---	---	0.807R	0.193R	0.032R	0.317R	0.127R	0.003R	0.001	0	---	---	0.150R	1963
1964	---	---	0.017	1.78	0.780	0.035	0.003	0	0	0.003	---	---	0.317	1964
1965	---	---	0	1.62	0.078	0.052	0.878	0.022	0.147	0.126	---	---	0.328	1965
1966	---	---	0.387	0.837	0.208	0.037	0.002	0.001	0	0	---	---	0.158	1966
1967	---	---	0	0.888	0.269	0.003	0	0	0	0	---	---	0.155	1967
1968	---	---	0.348	0.022	0.012	0.002	0	0.008	0.008	0.004	---	---	0.050	1968
1969	---	---	0	3.51	0.188	0.008	0.251	0.028	0	0.011	---	---	0.488	1969
1970	---	---	0	1.40	0.881	0.034	0.108	0.051	0.028	0.201	---	---	0.311	1970
1971	---	---	0.035	0.386	0.078	0.488	0.130	0.001	0.038	0.027	---	---	0.148	1971
1972	---	---	0.882	0.888	0.075	0.002	0	0	0.001	0.001	---	---	0.218	1972
1973	---	---	0.036	0.017	0.028	0.002	---	0.013	0.027	0.137	---	---	---	1973
1974	---	---	0	2.28	0.583	0.084	---	0	0	0	---	---	---	1974
1975	---	---	0	2.06	0.545	0.348	---	0.031	0.130	0.144	---	---	---	1975
1976	---	---	0.020	7.09	0.244	0.071	---	0	0	0	---	---	---	1976
MEAN	---	---	0.127R	1.38 R	0.213R	0.083R	0.083R	0.006R	0.031	0.038	---	---	0.187	MEAN

LOCATION - LAT 49 50 34 N, LONG 100 56 02 W
DRAINAGE AREA, 184 km^2
NATURAL FLOW
R - REVISED SINCE JAN 1980

BOSSHILL CREEK NEAR VIRDEN - STATION NO. 05MG002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	0.510 ON MAR 24	0B ON MAR 1 *	481	1959
1960	---	5.51 ON APR 3	0 ON MAR 1	5 030	1960
1961	---	0.170 ON APR 3	0 ON MAR 1	188	1961
1962	---	0.453 ON APR 18	0 ON MAR 1	388	1962
1963	---	1.87 ON MAR 23	0B ON MAR 1	3 380R	1963
1964	---	3.03 B ON APR 10	0B ON MAR 1	5 730	1964
1965	---	7.63 E ON APR 14	0E ON MAR 1	5 880	1965
1966	---	4.02 B ON MAR 31	0B ON MAR 1	3 350	1966
1967	---	3.87 ON APR 13	0B ON MAR 1	3 280	1967
1968	---	0.881B ON MAR 13	0B ON MAR 1	1 070	1968
1969	---	16.1 ON APR 14	0B ON MAR 1	10 400	1969
1970	---	5.11 ON APR 30	0B ON MAR 1	5 690	1970
1971	---	3.09 ON JUN 10	0B ON MAR 1	3 180	1971
1972	---	2.77 B ON MAR 23	0B ON MAR 1	4 570	1972
1973	---	0.348 ON MAR 19	---	---	1973
1974	---	10.8 ON APR 15	---	---	1974
1975	---	5.88 B ON APR 17	---	---	1975
1976	---	24.0 ON APR 10 *	---	---	1976
				3 880R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

BOYNE CHANNEL NEAR HOMEWOOD - STATION NO. 05DF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1918	---	---	---	---	---	---	---	---	---	0.017	0.021	---	---	1918
1919	---	---	---	1.34	0.081	0.005	0	0.004	0	---	---	---	---	1919
MEAN	---	---	---	1.34	0.081	0.005	0	0.004	0	0.017	0.021	---	---	MEAN

LOCATION - LAT 49 31 05 N, LONG 97 50 40 W
REGULATED

BOYNE RIVER NEAR CARMAN - STATION NO. 05OF003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1918	---	---	---	---	---	---	---	---	---	0.283	0.472	---	---	1918
1919	---	---	---	4.28	0.842	0.804	0.142	0.117	0.114	0.088	---	---	---	1919
1920	---	---	---	---	1.70 R	0.570	0.217	0.088	0	---	---	---	---	1920
1921	---	---	---	5.74	1.14	0.567	4.08	---	---	---	---	---	---	1921
1922	---	---	---	4.36	1.55	0.316	0.267	0.115	---	---	---	---	---	1922
1923	---	---	---	---	3.84	0.858	0.259	0.131	---	---	---	---	---	1923
1924	---	---	---	---	1.52	0.436	0.182	0.158	0.015	---	---	---	---	1924
1925	---	---	---	5.10	1.17	1.18	0.403	0.078	0.080	0.188	---	---	---	1925
1926	---	---	---	---	0.449	0.478	0.171	0.078	0.291	---	---	---	---	1926
1927	---	---	---	10.8	10.8	3.42	1.31	0.804	0.452	0.526	---	---	---	1927
1928	---	---	---	2.55	0.988	3.27	4.29	0.855	0.160	0.285	---	---	---	1928
1929	---	---	---	---	0.790	0.389	0.057	---	---	---	---	---	---	1929
1930	---	---	---	11.8	3.56	0.840	0.221	0.015	0.015	---	---	---	---	1930
1956	---	---	---	15.0	5.84	1.08	0.285	0.348	0.988	0.407	---	---	---	1956
1957	---	---	2.73	2.77	1.37	1.04	0.581	0.351	0.241	0.281	---	---	---	1957
1958	---	---	0.775	2.39	0.393	0.085	0.185	0.019	0	0	---	---	---	1958
1959	---	---	0.388	6.51	1.68	1.00	0.180	0.050	0.039	1.19	1.20	0.349	---	1959
1960	0.245	0.318	0.384	17.5	2.71	1.03	0.268	0.158	0.053	0.085	0.142	0.073	1.58	1960
1961	0.035	0.088	2.95	4.77 R	1.71 R	0.222R	0.013	0	0	0	0	0	0.617R	1961
1962	0	0	0	5.18	3.13	3.51	0.633	5.02	1.71	0.233	0.208	0.173	1.80	1962
1963	0.052	0.018	2.85	3.49	2.02	5.36	1.17	0.458	0.038	0.068	0.082	0.062	1.30	1963
1964	0.055	0.040	0.027	3.91	1.18	0.620	0.338	0.042	2.03	0.716	0.180	0.078	0.775	1964
1965	0.057	0.048	0.085	15.5	3.51	1.65	1.20	0.428	0.895	1.14	0.892	0.262	2.13	1965
1966	0.181	0.024	3.04	15.0	5.94	0.910	3.15	0.208	0.122	0.078	0.249	0.235	2.52	1966
1967	0.243	0.243	0.228	12.5	3.88	0.627	0.358	0.242	0	0.032	0.044	0.051	1.58	1967
1968	0.034	0.081	1.28	1.75	3.01	0.824	0.778	4.74	2.08	0.578	0.433	0.424	1.23	1968
1969	0.314	0.183	0.183	18.2	4.08	1.75	7.84	1.84	0.284	0.310	1.80	0.157	3.04	1969
1970	0.130	0.134	0.188	15.8	23.1	2.11	0.402	0.041	0.038	0.088	0.448	0.354	3.85	1970
1971	0.184	0.128	0.171	12.8	2.82	1.81	1.18	0.378	0.218	0.798	0.703	0.548	1.77	1971
1972	0.238	0.128	3.20	8.30	2.30	0.388	0.113	0.148	0.093	0.288	0.284	0.057	1.38	1972
1973	0.048	0.088	0.404	0.878	0.708	0.228	0.218	0.101	0.018	0.298	0.407	0.314	0.311	1973
1974	0.080	0.137	0.188	28.7	14.2	2.28	0.410	0.091	0.081	0.140	0.203	0.201	3.71	1974
1975	0.170	0.110	0.182	2.80	2.88	1.84	1.08	0.311	0.238	0.245	0.182	0.088	0.778	1975
1976	0.068	0.098	0.128	14.3	0.992	0.218	0.087	0.138	0.148	0.087	0.032	0.024	1.34	1976
1977	0.020	0.021	0.084	0.088	1.23	0.288	0.028	0.024	0.402	0.572	0.208	0.172	0.280	1977
1978	0.154	0.150	0.111	8.03	2.15	1.35	2.84	0.828	0.408	0.218	0.288	0.088	1.48	1978
1979	0.038	0.214	0.287	23.4	15.1	3.05	0.597	0.088	0.088	0.070	0.118	0.180	3.83	1979
1980	0.177	0.144	0.184	3.39	0.858	0.020	0.054	0.027	0.052	0.023	0.012	0.001	0.388	1980
1981	0	0.128	0.370	0.323	0.240	0.371	0.278	0.278	0.747	0.118	0.028	0.011	0.273	1981
1982	0	0	0.057	1.84	0.875	0.320	0.254	0.008	0.020	0.080	0.020	0.118	0.290	1982
1983	0.128	0.135	0.341	10.2	0.818	0.298	0.230	0.031	0.008	0.103	0.082	0.012	1.02	1983
1984	0	0	0.083	0.092	0.580	0.488	0.088	0.083	0.018	0.018	0.035	0.056	0.124	1984
MEAN	0.107	0.108	0.731	8.48 R	3.61 R	1.18 R	0.895	0.488	0.329	0.293	0.308	0.158	1.51	MEAN

LOCATION - LAT 49 31 00 N DRAINAGE AREA, 878 km²
LONG 97 58 40 W REGULATED

R - REVISED SINCE JAN 1980

BOYNE RIVER NEAR CARMAN - STATION NO. 05DF003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1918	---	---	---	---	1918
1919	---	13.5 ON APR 8	---	---	1919
1920	---	---	0 ON AUG 23 *	---	1920
1921	---	---	---	---	1921
1922	---	15.3 B ON APR 7	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1927	---	29.7 ON MAY 14	---	---	1927
1928	---	12.8 ON JUL 8	---	---	1928
1929	---	---	---	---	1929
1930	---	34.0 ON APR 9	0 ON AUG 11	---	1930
1956	---	55.1 B ON APR 25	0 ON SEP 26	---	1956
1957	---	10.8 B ON MAR 26	---	---	1957
1958	---	5.088 ON APR 1	0 ON JUN 19	---	1958
1959	---	14.8 B ON APR 8	0 B ON MAR 1	---	1959
1960	---	43.0 ON APR 15	0.028 ON SEP 19	59 800	1960
1961	---	18.4 B ON MAR 28	0 ON JUL 31	25 800R	1961
1962	---	38.8 B ON APR 23	0 ON JAN 1	59 800	1962
1963	---	14.5 ON JUN 5	0 B ON FEB 20	40 800	1963
1964	---	13.8 B ON APR 14	0 ON AUG 10	24 500	1964
1965	---	58.5 B ON APR 15	0.0488 ON JAN 27	87 300	1965
1966	---	55.2 B ON APR 8	0 B ON FEB 18	78 400	1966
1967	---	37.8 ON APR 23	0 ON AUG 25	48 200	1967
1968	---	35.7 ON AUG 27	0.0238 ON JAN 19	38 000	1968
1969	---	89.7 ON APR 15	0.048 ON SEP 22	95 800	1969
1970	---	105 ON APR 30	0.008 ON NOV 18	115 000	1970
1971	---	54.1 ON APR 13	0.005 ON SEP 29	55 800	1971
1972	---	19.3 B ON APR 16	0.008 ON OCT 6	43 200	1972
1973	---	1.18 ON APR 24	0.001 ON SEP 15	8 800	1973
1974	---	132 ON APR 22 *	0.004 ON AUG 17	117 000	1974
1975	---	11.4 ON JUN 30	0 ON AUG 2	24 500	1975
1976	35.1 AT 07:41 CST ON APR 12	24.8 ON APR 11	0 ON AUG 15	42 400	1976
1977	8.36 AT 19:03 CST ON MAY 21	7.39 ON MAY 21	0 ON JUL 14	8 200	1977
1978	---	23.8 B ON APR 13	0.0078 ON APR 7	48 800	1978
1979	131 B AT 23:43 CST ON APR 22 *	118 ON APR 23	0.0138 ON FEB 3	124 000	1979
1980	---	10.7 B ON APR 8	0 ON JUN 9	12 300	1980
1981	6.41 AT 08:07 CST ON JUN 26	5.67 ON JUN 26	0 B ON JAN 1	8 610	1981
1982	8.218 AT 00:27 CST ON APR 15	6.538 ON APR 15	0 B ON JAN 1	8 150	1982
1983	---	24.4 B ON APR 8	0 ON AUG 5	32 100	1983
1984	1.55 AT 21:28 CST ON JUN 10	1.40 ON JUN 11	0 B ON JAN 1	3 930	1984
				47 800R	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

BOYNE RIVER NEAR RATHWELL - STATION NO. 05DF007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	---	---	0.801	1.21	0.588	0.170	0	0	---	---	---	1983
1984	---	---	0	2.16	0.467	0.919	0.477	0.048	1.86	0.850	---	---	0.819	1984
1985	---	---	0	6.31	0.819	0.371	0.277	0.221	0.214	0.248	---	---	1.02	1985
1986	---	---	1.00	3.84	2.12	0.287	1.40	0.007	0	0	---	---	1.05	1986
MEAN	---	---	0.333	4.04	1.01	0.882	0.888	0.112	0.488	0.275	---	---	0.983	MEAN

LOCATION - LAT 49 38 10 N
LONG 98 30 19 W

DRAINAGE AREA, 440 km^2
NATURAL FLOW

BOYNE RIVER NEAR RATHWELL - STATION NO. 05DF007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1983	---	---	0 ON AUG 28 *	---	1983
1984	---	5.87 ON SEP 2	0B ON MAR 1	17 300	1984
1985	---	33.4 ON APR 14 *	0B ON MAR 1	21 800	1985
1986	---	8.55 ON APR 8	0B ON MAR 1	22 300	1986
				20 400	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOYNE RIVER NEAR ROSEISLE - STATION NO. 05OF011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1987	---	---	0.026	5.50	1.57	0.074	0.018	0.001	0	0.022	---	---	1.01	1987
1988	---	---	0.613	0.889	0.182	0.221	0.059	0.388	0.139	---	---	---	0.513	1988
1989	---	---	0	9.86	1.50	0.727	2.83	1.04	0.202	0.229	---	---	2.05	1989
1970	---	---	0	13.2 R	8.31	0.835	0.122	0.005	0.018	0.040	---	---	2.77 R	1970
1971	---	---	0	5.70	1.07	0.504	0.518	0.188	0.101	0.337	---	---	1.18	1971
1972	---	---	2.36	3.92	0.990	0.143	0.036	0.082	0.082	0.080	---	---	0.949	1972
1973	---	---	0.548	0.327	0.290	0.086	0.034	0.086	0.048	0.083	---	---	0.182	1973
1974	---	---	0.042	15.5	5.31	0.898	0.081	0.012	0.023	0.045	---	---	2.70	1974
1975	---	---	0.040	1.50	1.18	0.674	0.184	0.027	0.085	0.132	---	---	0.488	1975
1976	---	---	0.147	5.15	0.417	0.085	0.001	0.010	0	0	---	---	1.20	1976
1977	---	---	0.085	0.230	0.535	0.030	0.031	0.025	0.287	0.258	---	---	0.182	1977
1978	---	---	0.085	7.19	2.00	0.784	2.03	0.704	0.172	0.138	---	---	1.83	1978
1979	---	---	0.073	15.8	9.85	1.37	0.134	0.012	0.080	0.300	---	---	3.85	1979
1980	---	---	0.003	2.45	0.189	0.072	0.012	0.004	0.011	0.027	---	---	0.338	1980
1981	---	0.118	0.157	0.190	0.101	0.186	0.344	0.081	0.012	0.030	---	---	0.132	1981
1982	---	---	0.106	0.749	0.290	0.238	0.019	0.008	0	0.055	---	---	0.181	1982
1983	---	---	0.346	7.53	0.258	0.088	0.013	0	0	0	---	---	1.01	1983
1984	---	---	0.181	0.218	0.300	0.137	0	0	0	0.040	---	---	0.108	1984
MEAN	---	0.118	0.286	5.71 R	1.95	0.380	0.373	0.177	0.078	0.107	---	---	1.12	MEAN

LOCATION - LAT 49 32 39 N LONG 98 24 52 W
DRAINAGE AREA, 585 km²
NATURAL FLOW

R - REVISED SINCE JAN 1980

BOYNE RIVER NEAR ROSEISLE - STATION NO. 05OF011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1987	---	23.3 ON APR 21	0 B ON MAR 1 *	21 400	1987
1988	---	14.2 E ON AUG 24	0 B ON MAR 1	10 800	1988
1989	---	42.6 ON APR 12	0 B ON MAR 1	43 500	1989
1970	---	51.8 R ON APR 28	0 B ON MAR 1	58 800R	1970
1971	---	22.3 B ON APR 8	0 B ON MAR 1	24 800	1971
1972	---	9.178 ON MAR 21	0 B ON MAR 1	20 000	1972
1973	---	1.008 ON MAR 14	0 B ON MAR 1	3 880	1973
1974	---	88.2 ON APR 21	0.008 ON AUG 4	57 200	1974
1975	---	3.91 ON APR 28	0.003 ON AUG 7	9 940	1975
1976	---	27.2 ON APR 8	0 ON JUL 7	25 400	1976
1977	---	1.91 ON MAY 15	0 B ON MAR 1	3 880	1977
1978	---	30.2 ON APR 10	0.040B ON MAR 1	34 400	1978
1979	---	83.8 A ON APR 21 *	0 ON AUG 12	75 200	1979
1980	8.478 AT 10:16 CST ON APR 10	7.288 ON APR 10	0 B ON MAR 1	7 150	1980
1981	11.3 AT 02:48 CST ON JUL 18	5.53 ON JUL 18	0 ON AUG 15	2 780	1981
1982	---	1.84 ON APR 21	0 B ON MAR 1	3 830	1982
1983	18.3 AT 22:56 CST ON APR 8 *	15.8 ON APR 11	0 ON JUL 8	21 300	1983
1984	1.85 AT 18:03 CST ON JUN 2	1.23 ON JUN 2	0 B ON MAR 1	2 320	1984
				23 700R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

BOYNE RIVER NEAR STEPHENFIELD - STATION NO. 05OF005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1952	---	---	---	---	---	---	---	---	0.008R	0.014R	0.025R	0.023R	---	1952
1953	0.008R	0.003R	0.113R	1.17	0.742	7.82	1.45	2.84	0.076	0.059	0.085	0.057	1.20 R	1953
1954	0.038	0.081	0.121	1.19	1.63	8.03	5.32	0.379	0.634	1.18	1.18	0.572	1.84	1954
1955	0.159	0.143	0.184	14.1	2.12	3.73	3.86	0.153	0.016	0.088	0.078	0.110	2.03	1955
1956	0.081	0.088	0.104	13.3	7.80	0.988	0.141	0.578	1.08	0.534	0.771	0.187	2.10	1956
1957	0.093	0.128	2.68	2.78	1.33	1.10	0.520	0.282	0.232	0.142	0.185	0.087	0.788	1957
1958	0.015	0.023	1.25	2.14	0.512	0.096	0.114	0.024	0.007	0.040	0.077	0.058	0.382	1958
1959	0.088	0.039	0.671	5.78	1.61	0.788	0.128	0.048	0.078	1.13	0.881	0.228	0.973	1959
1960	0.181	0.067	0.165	15.3	2.48	1.10	0.271	0.272	0.053	0.123	0.188	0.092	1.87	1960
1961	0.050	0.030	3.78	4.85	1.81	0.151	0.032	0.011	0.012	0.010	0.002	0	0.884	1961
1962	0	0	0	8.01	2.80	2.80	0.810	6.13	1.52	0.334	0.223	0.131	1.88	1962
1963	0.033	0.011	2.84	3.13	1.70	4.42	1.18	0.388	0.127	0.431	0.140	0.081	1.20	1963
1964	0.034	0.021	0.008	3.13	1.03	0.848	0.332	0.081	2.17	0.187	0.218	0.140	0.885	1964
1965	0.088	0.074	0.104	15.7	3.04	1.28	1.23	0.482	0.703	0.838	0.580	0.244	2.02	1965
1966	0.041	0.008	1.32	12.2	7.38	0.635	2.87	0.184	0.084	0.115	0.241	0.158	2.08	1966
1967	0.138	0.024	0.088	10.6	3.18	0.709	0.333	0.082	0.020	0.031	0.082	0.083	1.28	1967
1968	0.008	0.014	1.80	1.28	1.84	0.384	0.717	4.18	1.80	0.578	0.489	0.482	1.10	1968
1969	0.258	0.218	0.224	18.2	3.13	2.08	8.84	1.38	0.278	0.448	1.38	0.138	2.88	1969
1970	0.128	0.138	0.132	19.3	17.8	1.82	0.287	0.013	0.034	0.111	0.311	0.182	3.33	1970
1971	0.088	0.124	0.187	12.8	2.13	1.37	1.17	0.308	0.234	0.828	0.788	0.471	1.68	1971
1972	0.180	0.021	3.82	8.28	1.84	0.318	0.048	0.090	0.043	0.334	0.234	0.148	1.22	1972
1973	0.108	0.138	0.548	0.833	0.881	0.184	0.158	0.075	0.088	0.287	0.483	0.373	0.288	1973
1974	0.187	0.171	0.188	23.4	10.7	1.77	0.274	0.013	0.048	0.048	0.258	0.217	3.08	1974
1975	0.182	0.138	0.177	2.85	2.13	1.70	0.828	0.310	0.238	0.286	0.188	0.088	0.737	1975
1976	0.078	0.078	0.084	14.2	0.827	0.182	0.018	0.080	0.187	0.057	0.087	0.048	1.30	1976
1977	0.058	0.128	0.090	0.017	1.36	0.128	0.018	0.071	0.881	0.483	0.288	0.281	0.278	1977
1978	0.228	0.170	0.117	5.08	2.09	1.24	2.87	0.848	0.380	0.208	0.383	0.083	1.48	1978
1979	0.040	0.088	0.180	24.1	15.8	2.48	0.282	0.082	0.088	0.048	0.084	0.178	3.58	1979
1980	0.183	0.178	0.180	3.83	0.801	0.088	0.078	0.118	0.088	0.017	0.012	0.028	0.418	1980
1981	0.078	0.072	0.287	0.309	0.288	0.831	0.428	0.283	0.718	0.198	0.084	0.088	0.287	1981
1982	0.028	0.023	0.033	2.18	0.832	0.371	0.078	0.013	0.132	0.048	0.188	0.178	0.320	1982
1983	0.187	0.123	0.238	10.5	0.888	0.288	0.285	0.147	0.078	0.188	0.043	0.018	1.04	1983
1984	0.006	0.030	0.078	0.388	0.830	0.447	0.184	0.131	0.088	0.028	0.080	0.081	0.178	1984
MEAN	0.093R	0.078R	0.844R	8.29	3.18	1.80	0.888	0.622	0.382R	0.288R	0.313R	0.158R	1.37	MEAN

LOCATION - LAT 49 30 48 N LONG 98 14 58 W
DRAINAGE AREA, 873 km²
REGULATED SINCE 1964

R - REVISED SINCE JAN 1980

BOYNE RIVER NEAR STEPHENFIELD - STATION NO. 05OF008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1952	---	---	---	---	1952
1953	---	26.9 ON JUN 4	0.003RB ON FEB 1	37 900R	1953
1954	---	31.7 E ON JUL 1	0.028B ON JAN 1	48 500	1954
1955	---	41.3 B ON APR 5	0 ON SEP 2 *	64 200	1955
1956	---	44.7 B ON APR 21	0 B ON FEB 20	88 400	1956
1957	---	11.1 B ON MAR 23	0.028 ON SEP 21	25 100	1957
1958	---	8.20B ON MAR 31	0 B ON JAN 16	11 400	1958
1959	---	17.8 B ON APR 4	0.003B ON MAR 16	30 700	1959
1960	---	41.1 ON APR 14	0.003 ON OCT 1	52 800	1960
1961	---	26.5 B ON MAR 27	0 ON OCT 20	27 000	1961
1962	---	45.0 B ON APR 21	0 B ON JAN 1	61 900	1962
1963	---	15.0 ON JUN 5	0 B ON FEB 19	38 000	1963
1964	---	12.5 ON SEP 2	0 B ON APR 9	21 700	1964
1965	---	83.4 ON APR 15	0.034 ON JUN 14	83 700	1965
1966	---	42.5 B ON APR 4	0 B ON FEB 18	86 000	1966
1967	---	43.3 ON APR 21	0 ON AUG 21	40 400	1967
1968	---	32.8 ON AUG 25	0 B ON JAN 16	34 800	1968
1969	---	70.8 ON APR 12	0.122 ON SEP 20	90 000	1969
1970	111 AT 13:27 CST ON APR 29	105 ON APR 29	0.006 ON AUG 12	105 000	1970
1971	60.3 AT 12:00 CST ON APR 11	57.2 ON APR 11	0.018 ON AUG 31	53 200	1971
1972	20.7 AT 13:44 CST ON APR 15	18.7 ON APR 15	0.003 ON SEP 10	38 500	1972
1973	---	1.70B ON MAR 27	0.004A ON JUL 24	8 430	1973
1974	138 AT 17:00 CST ON APR 21	114 ON APR 21	0.001A ON AUG 8	87 800	1974
1975	15.8 AT 06:10 CST ON JUN 29	14.3 ON JUN 29	0.001A ON JUL 30	23 200	1975
1976	43.8 AT 18:37 CST ON APR 8	42.8 ON APR 8	0 ON AUG 8	41 300	1976
1977	---	7.78A ON MAY 20	0 ON APR 25	6 750	1977
1978	---	26.1 B ON APR 11	0.045B ON DEC 27	46 700	1978
1979	155 AT 08:48 CST ON APR 22 *	137 ON APR 22 *	0.029 ON SEP 14	113 000	1979
1980	12.4 AT 15:10 CST ON APR 7	11.5 B ON APR 7	0.011 ON OCT 28	13 100	1980
1981	7.18 AT 22:11 CST ON JUN 24	6.01 ON JUN 25	0.001A ON OCT 22	8 050	1981
1982	---	8.28A ON APR 13	0.001A ON JUL 22	10 100	1982
1983	32.0 B AT 13:45 CST ON APR 9	30.0 B ON APR 9	0.001 ON NOV 22	32 900	1983
1984	2.19 AT 14:35 CST ON APR 14	1.74 ON JUN 9	0.001B ON JAN 17	5 820	1984
				43 400R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980

BOYNE RIVER NEAR TREHERNE - STATION NO. 05OF010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.036	2.16	0.505	0.004	0.042	0	0	0	---	---	0.882	1967
1968	---	---	0.328	0.416	0.327	0.077	0.073	0.201	0.135	0.083	---	---	0.288	1968
1969	---	---	0.005	5.65	0.503	0.758	1.49	0.519	0.084	0.100	---	---	1.73	1969
1970	---	---	0	8.73 R	3.22	0.316	0.061	0.011	0.018	0.028	---	---	2.55 R	1970
1971	---	---	0	4.72	0.611	0.278	0.589	0.105	0.042	0.155	---	---	1.38	1971
1972	---	---	0.872	1.98	0.450	0.048	0.005	0.131	0.021	0.029	---	---	0.663	1972
1973	---	---	0.287	0.163	0.148	0.038	0.086	0.019	0.023	0.038	---	---	0.102	1973
1974	---	---	0	8.80	2.22	0.387	0.014	0	0.013	0.041	---	---	2.82	1974
1975	---	---	0.001	0.789	0.695	0.173	0.023	0.003	0.026	0.036	---	---	0.414	1975
1976	---	---	0.074	5.17	0.178	0.053	0.005	0	0	0	---	---	1.35	1976
1977	---	---	0.010	0.148	0.223	0.018	0.481	0.123	0.406	0.147	---	---	0.102	1977
1978	---	---	0.005	3.45	0.537	0.388	---	---	---	---	---	---	0.651	1978
1979	---	---	0.017	6.88	3.25	0.518	---	---	---	---	---	---	2.64	1979
1980	---	---	0.023	0.903	0.058	0.008	---	---	---	---	---	---	0.248	1980
1981	---	---	0.035	0.100	0.068	0.071	---	---	---	---	---	---	0.075	1981
1982	---	---	0.068	0.849	0.151	0.045	---	---	---	---	---	---	0.234	1982
1983	---	---	0.520	3.88	0.197	0.043	---	---	---	---	---	---	1.15	1983
1984	---	---	0.178	0.128	0.170	0.031	---	---	---	---	---	---	0.128	1984
MEAN	---	---	0.149	2.87 R	0.784	0.178	0.282	0.101	0.068	0.081	---	---	0.883	MEAN

LOCATION - LAT 49 40 15 N, LONG 98 38 35 W; DRAINAGE AREA, 277 km^2; NATURAL FLOW

R - REVISED SINCE JAN 1980

REMARKS - HIGHER MAXIMUM DISCHARGES ARE KNOWN TO HAVE OCCURRED OUTSIDE THE STANDARD PERIOD IN 1973 AND 1977

BOYNE RIVER NEAR TREHERNE - STATION NO. 05OF010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	8.95 ON APR 21	0 B ON MAR 1 *	7 280	1967
1968	---	2.14 ON MAY 16	0 B ON MAR 1	3 030	1968
1969	---	29.7 ON APR 10	0 B ON MAR 1	18 300	1969
1970	---	34.0 R ON APR 26	0 B ON MAR 1	25 800R	1970
1971	---	12.8 ON APR 8	0 B ON MAR 1	14 800	1971
1972	---	4.25 B ON APR 10	0 B ON MAR 1	9 100	1972
1973	---	0.4258 ON MAR 12	0 B ON MAR 1	1 710	1973
1974	---	49.6 ON APR 21 *	0 B ON MAR 1	29 700	1974
1975	---	4.25 E ON MAY 25	0 B ON MAR 1	4 370	1975
1976	---	19.4 B ON APR 8	0.018 ON JUN 30	14 200	1976
1977	---	0.884 ON MAY 14	0 B ON MAR 1	1 070	1977
1978	---	7.62 ON APR 10	0.0168 ON MAR 1	8 970	1978
1979	---	37.2 B ON APR 21	0.0168 ON MAR 1	27 900	1979
1980	3.00 B AT 20:28 CST ON APR 6	2.70 B ON APR 6	0 ON JUN 6	2 610	1980
1981	0.211 AT 22:38 CST ON MAY 28	0.176 ON MAY 2	0.0058 ON MAR 5	788	1981
1982	2.32 B AT 08:38 CST ON APR 13	1.90 B ON APR 13	0 B ON MAR 1	2 470	1982
1983	14.8 AT 03:25 CST ON APR 9 *	12.3 ON APR 8	0 B ON MAR 1	12 000	1983
1984	---	1.59 B ON MAR 25	0 B ON MAR 1	1 350	1984
				10 400R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

BROKENHEAD RIVER AT ST. OUENS - STATION NO. 05SA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	5.59	3.80	2.30	11.7	13.5	6.38	---	---	1912
1913	---	---	---	---	5.95	3.04	5.37	5.89	4.68	3.48	2.44	---	---	1913
1914	0	0	0.158	5.13	6.70	13.4	15.0	2.43	2.39	5.42	3.89	0.786	4.72	1914
1915	0.170	0.113	0.085	10.6	14.5	5.44	3.80	0.403	0.126	1.84	1.14	0.425	3.32	1915
1916	0.142	0.142	0.142	20.3	16.9	5.79	5.67	5.14	1.66	2.10	2.64	0.283	5.16	1916
1917	0.057	0.057	0.170	5.95	5.08	1.07	0.504	0.603	0.893	0.680	1.30	0.113	1.37	1917
1918	0.026	0	1.18	2.53	1.33	3.66	1.75	2.07	0.791	1.26	4.02	0.661	1.63	1918
1919	0.212	0.061	0.231	11.2	4.71	2.69	22.1	3.40	3.37	2.18	0.784	0.116	4.31	1919
1920	0.008	0.087	0.388	13.1	7.40	12.5	1.41	0.084	0.112	0.185	0.150	0.072	2.83	1920
1921	0.062	0.080	0.082	8.02	6.26	2.24	4.21	1.04	1.95	2.19	1.08	0.226	2.29	1921
1922	0.080	0.038	0.174	4.80	16.4	5.26	3.22	4.43	2.79	0.869	4.31	---	---	1922
1923	---	---	---	---	16.8	5.34	11.2	8.23	3.84	3.63	1.70	---	---	1923
1924	---	---	---	---	22.2	8.13	1.78	1.67	0.808	3.58	---	---	---	1924
1925	---	---	---	17.3	8.58	24.6	8.70	2.00	1.88	5.68	3.40	---	---	1925
1926	---	---	---	---	1.35	4.62	5.64	1.47	1.79	10.4	7.08	---	---	1926
1927	---	---	---	28.3	47.3	14.7	2.70	0.578	2.58	5.63	4.26	---	---	1927
1928	---	---	---	1.42	4.11	25.6	21.1	7.63	2.56	0.751	---	---	---	1928
1929	---	---	---	---	2.68	5.93	3.58	0.286	0.132	0.236	---	---	---	1929
1930	---	---	---	8.07	20.5	7.35	7.87	0.770	0.283	1.61	0.842	---	---	1930
1931	---	---	---	12.7	8.38	1.37	---	---	---	---	---	---	---	1931
MEAN	0.084	0.059	0.268	10.7	11.2	8.10	8.93	2.64	2.33	3.49	2.98	0.338	3.22	MEAN

LOCATION - LAT 50 03 03 N
LONG 96 26 45 W
DRAINAGE AREA, 1 530 km^2
NATURAL FLOW

BROKENHEAD RIVER AT ST. OUENS - STATION NO. 05SA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	36.8 ON JUL 18	0 B ON JAN 1 *	149 000	1914
1915	---	23.8 ON MAY 11	0.057 ON AUG 31	105 000	1915
1916	---	47.0 ON APR 19	0.1428 ON JAN 1	184 000	1916
1917	---	13.3 ON APR 21	0.0288 ON DEC 6	43 000	1917
1918	---	8.88 ON NOV 24	0 B ON FEB 1	51 400	1918
1919	---	44.7 ON JUL 9	0.0288 ON FEB 23	136 000	1919
1920	---	27.0 B ON APR 18	0 B ON JAN 6	82 500	1920
1921	---	11.4 B ON APR 13	0.0288 ON JAN 1	72 300	1921
1922	---	30.3 ON MAY 20	0.0288 ON FEB 3	---	1922
1923	---	85.7 ON APR 24 *	---	---	1923
1924	---	68.7 ON APR 27	---	---	1924
1925	---	36.0 ON JUN 27	---	---	1925
1926	---	---	---	---	1926
1927	---	63.7 ON MAY 14	---	---	1927
1928	---	55.5 ON JUN 23	---	---	1928
1929	---	---	---	---	1929
1930	---	43.6 ON MAY 18	---	---	1930
1931	---	26.4 ON APR 11	---	---	1931
				102 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BROKENHEAD RIVER NEAR BEAUSEJOUR - STATION NO. 05AA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1942	---	---	---	---	---	3.45	0.311	0.172	0.834	0.418	---	---	---	1942
1943	---	---	---	9.77	6.88	17.1	7.80	0.808	0.520	0.248	---	---	---	1943
1944	---	---	---	2.43	1.80	14.2	4.58	4.37	18.0	3.89	9.50	---	---	1944
1945	---	---	---	27.3	14.8	3.88	2.28	0.222	3.24	4.08	---	---	---	1945
1946	---	---	---	10.3	4.21	0.788	0.595	0.045	0.178	1.15	---	---	---	1946
1947	---	---	---	---	12.7	4.88	1.35	4.29	1.07	3.43	---	---	---	1947
1948	---	---	---	15.3	18.5	0.889	1.37	2.80	0.381	0.089	---	---	---	1948
1949	---	---	---	5.57	5.87	1.81	0.315	0.810	0.308	4.86	---	---	---	1949
1950	---	---	---	15.2	51.4	9.87	4.17	0.721	3.01	5.88	---	---	---	1950
1951	---	---	---	9.53	8.48	4.98	0.776	0.313	0.987	0.883	---	---	---	1951
1952	---	---	---	1.51	0.142	0.248	0.530	0.048	0.008	0.057	---	---	---	1952
1953	---	---	---	3.17	1.25	5.75	5.88	0.948	0.468	0.493	---	---	---	1953
1954	---	---	---	5.47	11.8	14.2	4.88	0.510	5.01	9.85	5.93	---	---	1954
1955	---	---	---	30.1	10.8	7.58	1.98	0.185	0.023	0.312	---	---	---	1955
1956	---	---	0	8.62	12.5	5.00	2.38	0.795	4.81	2.12	---	---	---	1956
1957	---	---	3.78	15.8	11.4	10.3	5.53	0.884	0.385	0.382	0.288	0.091	---	1957
1958	0.041	0.028	0.278	0.917	0.260	0.052	5.08	1.43	0.209	0.354	0.425	0.281	0.872	1958
1959	0.125	0.015	0.009	14.9	18.6	27.8	6.19	5.92	13.2	28.1	13.0	1.10	10.8	1959
1960	0.053	0.031	1.72	37.4	13.7	4.88	1.80	0.544	0.248	0.177	0.873	0.218	5.10	1960
1961	0.003	0.024	1.20	3.88	3.77	0.424	0.088	0.211	0.082	0.144	0.047	0.038	0.835	1961
1962	0.025	0.015	0.040	2.55	14.5	15.5	5.88	13.5	3.29	1.18	1.42	0.750	5.23	1962
1963	0.057	0.023	2.80	15.5	10.0	19.3	6.59	1.74	0.384R	0.142R	0.210R	0.099	4.88 R	1963
1964	0.007	0	0	9.89	14.4	5.48	2.02	0.401	0.881	2.23	0.831	0.174	3.01	1964
1965	0.104	0.066	0.033	13.1	10.7	9.12	7.79	1.21	2.34	2.87	2.36	1.80	4.23	1965
1966	0.185	0.157	0.800	37.8	33.6	14.3	19.4	0.854	3.82	2.37	2.25	0.198	9.63	1966
1967	0.443	0.319	1.50	32.7	17.4	2.84	1.03	0.801	0.053	0.042	0.122	---	---	1967
1968	---	---	---	3.59	5.74	8.09	5.19	5.05	3.40	3.44	2.01	---	---	1968
1969	---	---	0.176	17.7	8.72	8.78	4.19	1.08	0.488	1.62	0.724	0.512	---	1969
1970	0.227	0.084	0.032	12.7	24.1	23.2	3.24	0.378	0.804	0.739	3.87	0.104	5.78	1970
1971	0.028	0.020	0.014	17.1	7.80	2.87	1.04	0.488	0.101	1.18	1.74	0.288	2.70	1971
1972	0.104	0.088	0.307	11.8	6.33	1.85	0.181	0.161	0.448	1.08	0.788	0.092	1.84	1972
1973	0.071	0.073	3.31	2.48	2.14	11.7	4.61	2.14	8.78	14.0	3.88	1.88	4.89	1973
1974	0.383	0.228	0.207	54.1	53.7	14.1	0.422	0.071	0.102	0.208	0.185	0.088	10.3	1974
1975	0.031	0.080	0.133	5.27	8.80	9.87	4.41	0.770	0.780	0.753	0.702	0.154	2.47	1975
1976	0.119	0.087	0.081	15.0	4.83	4.19	1.75	0.098	0.022	0.036	0.030	0.017	2.18	1976
1977	0.034	0.018	0.038	0.885	0.171	1.32	1.40	0.618	10.8	8.48	1.88	0.430	1.88	1977
1978	0.188	0.188	0.388	28.7	18.5	4.81	2.85	0.380	0.081	0.114	0.118	0.080	4.48	1978
1979	0.087	0.084	0.084	17.0	23.4	12.3	0.890	0.080	0.838	0.181	0.274	0.152	4.58	1979
1980	0.083	0.071	0.100	7.88	1.41	0.145	0.048	0.080	0.070	0.234	0.385	0.088	0.854	1980
1981	0.024	0.133	0.882	0.840	0.282	0.830	0.743	0.072	1.01	2.80	1.73	0.313	0.811	1981
1982	0.088	0.042	0.383	8.24	3.88	5.80	3.17	1.81	0.230	2.23	1.03	0.888	2.28	1982
1983	0.123	0.012	0.888	11.7	4.83	3.17	1.97	0.072	0.021	0.031	0.233	0.083	1.80	1983
1984	0.008	0.015	0.484	1.08	0.338	11.3	2.88	0.384	0.021	0.482	0.526	0.131	1.48	1984
MEAN	0.108	0.073	0.890	13.4	11.3	7.87	3.42	1.33	2.24 R	2.80 R	1.80 R	0.388	3.87	MEAN

LOCATION - LAT 50 05 25 N
LONG 96 25 48 W

DRAINAGE AREA, 1 880 km²
NATURAL FLOW

R - REVISED SINCE JAN 1980

BROKENHEAD RIVER NEAR BEAUSEJOUR - STATION NO. 05SA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1942	---	---	---	---	1942
1943	---	31.1 B ON APR 9	---	---	1943
1944	---	35.7 ON SEP 8	0 B ON APR 1 *	---	1944
1945	---	53.2 ON MAR 27	---	---	1945
1946	---	27.7 B ON MAR 24	---	---	1946
1947	---	28.1 B ON APR 14	---	---	1947
1948	---	38.4 ON APR 29	---	---	1948
1949	---	22.1 ON APR 12	---	---	1949
1950	---	88.4 ON MAY 11	---	---	1950
1951	---	13.8 B ON APR 7	---	---	1951
1952	---	3.058 ON APR 11	0 ON MAR 24	---	1952
1953	---	13.4 ON JUL 6	---	---	1953
1954	---	34.0 ON SEP 29	---	---	1954
1955	---	74.5 ON APR 3	0 ON SEP 4	---	1955
1956	---	20.4 B ON APR 23	0 B ON MAR 1	---	1956
1957	---	30.8 ON APR 26	---	---	1957
1958	---	11.5 ON JUL 26	0.0288 ON JAN 15	27 500	1958
1959	---	60.6 ON JUN 11	0 B ON FEB 16	340 000	1959
1960	---	82.7 ON APR 15	0 B ON FEB 12	181 000	1960
1961	---	7.08 ON MAY 2	0 B ON JAN 5	28 300	1961
1962	---	45.3 ON MAY 27	0.0148 ON FEB 11	185 000	1962
1963	---	39.8 B ON APR 8	0.0208 ON FEB 16	154 000R	1963
1964	---	38.2 B ON APR 19	0 B ON JAN 11	85 300	1964
1965	---	30.3 B ON APR 14	0.0178 ON MAR 28	138 000	1965
1966	---	51.5 ON APR 15	0.0178 ON JAN 28	304 000	1966
1967	---	47.0 ON APR 22	---	---	1967
1968	---	17.4 ON JUN 15	---	---	1968
1969	38.2 AT 05:58 CST ON APR 12	36.5 ON APR 13	---	---	1969
1970	48.4 AT 22:15 CST ON MAY 30	48.2 ON MAY 30	0 B ON FEB 15	182 000	1970
1971	44.7 AT 08:51 CST ON APR 8	37.7 ON APR 11	0.0118 ON MAR 21	85 200	1971
1972	24.3 B AT 22:09 CST ON APR 16	22.5 B ON APR 16	0.087 ON SEP 3	91 400	1972
1973	41.8 AT 20:22 CST ON JUN 20	37.7 ON JUN 21	0.0888 ON JAN 5	148 000	1973
1974	---	163 A ON APR 23 *	0.0468 ON DEC 31	328 000	1974
1975	51.0 AT 07:47 CST ON JUN 23	45.8 ON JUN 23	0.0218 ON JAN 21	78 000	1975
1976	---	21.6 ON APR 19	0.0148 ON DEC 11	88 300	1976
1977	---	18.0 ON SEP 10	0 B ON MAR 10	82 700	1977
1978	---	54.8 B ON APR 15	0.034 ON SEP 11	181 000	1978
1979	73.0 B AT 18:20 CST ON APR 19 *	66.3 B ON APR 19	0.029 ON AUG 5	144 000	1979
1980	22.0 AT 01:30 CST ON APR 8	18.8 B ON APR 8	0.010 ON JUL 30	27 000	1980
1981	3.01 AT 21:59 CST ON OCT 30	3.708 ON APR 3	0.0018 ON JAN 4	25 800	1981
1982	23.6 B AT 06:11 CST ON APR 17	18.7 B ON APR 17	0 B ON MAR 14	72 000	1982
1983	27.7 AT 23:28 CST ON APR 11	20.6 B ON APR 11	0.0018 ON JAN 14	58 800	1983
1984	22.7 AT 03:20 CST ON JUN 20	22.4 ON JUN 20	0 B ON JAN 15	48 200	1984
				122 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980

BROKENHEAD RIVER NEAR VIVIAN - STATION NO. 05SA004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	---	17.3	8.38	3.31	0.813	0.642	0.028	0.024	---	---	---	1980
1981	---	---	0.503	1.31	1.38	0.072	0.003	0.002	0.139	0.218	---	---	0.438	1981
1982	---	---	0.008	1.04	3.80	4.38	3.11	8.01	1.30	0.828	---	---	2.83	1982
1983	---	---	0.843	4.78	3.33	8.32	3.63	0.870	0.088	0.301	---	---	2.50	1983
1984	---	---	0	3.87	8.88	3.31	1.10	0.128	0.384	1.03	---	---	1.88	1984
1985	---	---	0	5.88	4.38	3.87	3.43	0.334	0.818	0.888	---	---	2.48	1985
1986	---	---	0.288	15.8	13.0	7.15	8.80	0.285	1.82	0.883	---	---	5.08	1986
1987	---	---	0.238	16.5	7.48	0.857	0.027	0.018	0	0	---	---	3.08	1987
1988	---	---	0.331	1.32	1.28	2.80	0.758	1.08	2.48	1.38	---	---	1.43	1988
1989	---	---	0	7.83	8.08	4.17	1.30	0.137	0.102	0.348	---	---	2.31	1989
1970	---	---	0	4.88	8.48	7.88	0.841	0.108	0.208	0.102	---	---	2.74	1970
1971	---	---	0.023	5.48	2.31	0.288	0.147	0.010	0.181	0.488	---	---	1.10	1971
1972	---	---	0.008	5.00	2.28	0.813	0.011	0.008	0.042	0.188	---	---	0.888	1972
1973	---	---	1.33	0.381	0.402	1.78	0.615	0.281	3.02	5.20	---	---	1.84	1973
1974	---	---	0	21.8	21.7	8.81	0.088	0.001	0	0	---	---	6.28	1974
1975	---	---	0	1.85	2.41	2.74	2.00	0.384	0.183	0.107	---	---	1.18	1975
1976	---	---	0.005	5.38	1.81	2.38	1.38	0.070	0	0	---	---	1.37	1976
1977	---	---	0	0.086	0.087	0.224	0.218	0.081	2.87	2.61	---	---	0.758	1977
1978	---	---	0.004	11.3	5.87	3.08	0.132	0	0	0	---	---	2.48	1978
1979	---	---	0	5.03	8.18	8.02	0.188	0.088	0.147	0.088	---	---	2.44	1979
1980	---	---	0.008	3.38	0.288	0.008	0	0	0	0.027	---	---	0.317	1980
1981	---	---	0.087	0.088	0.008	0.018	0.078	0	0.078	0.578	---	---	0.111	1981
1982	---	---	0.083	3.41	1.23	1.78	0.781	0.837	0.072	1.07	---	---	1.12	1982
1983	---	---	0.388	5.88	1.18	0.827	0.857	0.034	0	0.008	---	---	1.08	1983
1984	---	---	0.022	0.431	0.043	8.08	1.11	0.014	0	0.083	---	---	0.838	1984
MEAN	---	---	0.171	5.83	4.38	2.88	1.30	0.410	0.883	0.843	---	---	1.88	MEAN

LOCATION - LAT 49 53 07 N, LONG 96 21 57 W DRAINAGE AREA, 847 km^2, NATURAL FLOW

BROKENHEAD RIVER NEAR VIVIAN - STATION NO. 05BA004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	40.8 ON APR 15	0 ON AUG 15 *	---	1980
1981	---	2.78 B ON MAR 30	0 B ON MAR 1	8 270	1981
1982	---	11.5 ON MAY 27	0.0068 ON MAR 1	53 600	1982
1983	---	9.12 ON JUL 1	0 B ON MAR 1	52 800	1983
1984	---	11.4 ON APR 17	0 B ON MAR 1	38 300	1984
1985	---	11.8 ON APR 18	0 ON MAR 1	52 100	1985
1986	---	21.8 ON APR 13	0.017 ON AUG 25	128 000	1986
1987	---	26.4 ON APR 24	0 ON JUL 19	85 400	1987
1988	---	4.58 ON JUN 15	0 ON MAR 1	30 300	1988
1989	---	32.3 ON APR 14	0 B ON MAR 1	49 000	1989
1970	13.2 AT 15:15 CST ON MAY 30	13.2 ON MAY 30	0 B ON MAR 1	88 000	1970
1971	11.3 AT 15:07 CST ON APR 8	9.03 ON APR 13	0 B ON MAR 1	23 300	1971
1972	10.5 AT 14:26 CST ON APR 18	10.5 ON APR 18	0 B ON MAR 1	21 200	1972
1973	8.07 AT 10:05 CST ON OCT 15	8.01 ON OCT 15	0 B ON MAR 1	34 800	1973
1974	75.3 AT 08:51 CST ON APR 24 *	74.8 ON APR 24 *	0 B ON MAR 1	132 000	1974
1975	8.00 AT 14:01 CST ON JUL 1	5.95 ON JUL 1	0 B ON MAR 1	24 900	1975
1976	8.16 AT 23:33 CST ON APR 18	8.13 ON APR 19	0 B ON AUG 25	26 800	1976
1977	4.53 AT 08:48 CST ON SEP 15	4.50 ON SEP 28	0 B ON MAR 1	16 100	1977
1978	24.5 AT 20:43 CST ON APR 21	23.7 ON APR 22	0 B ON MAR 1	80 700	1978
1979	14.4 AT 08:34 CST ON MAY 2	14.3 ON MAY 2	0 B ON MAR 1	61 800	1979
1980	---	8.02 A ON APR 11	0 ON JUN 8	6 700	1980
1981	0.837 AT 00:01 CST ON OCT 31	0.822 ON OCT 31	0 B ON MAR 1	2 350	1981
1982	7.41 AT 14:20 CST ON APR 18	7.36 ON APR 18	0 B ON MAR 1	23 800	1982
1983	10.2 B AT 09:01 CST ON APR 7	8.88 ON APR 11	0 B ON MAR 1	22 500	1983
1984	12.8 AT 01:23 CST ON JUN 19	12.8 ON JUN 19	0 B ON MAR 1	17 700	1984
				41 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BUFFALO LAKE CHANNEL NEAR ALTONA - STATION NO. 05DC025

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0 R	0.058R	0.050R	0.078R	0 R	0 R	0.018R	0.012R	---	---	0.032R	1977
1978	---	---	0.640R	5.87 R	0.273R	0.505R	0.001R	0 R	0.041R	0.073R	---	---	0.812R	1978
1979	---	---	0	17.2	1.39	0.384	0.108	0.014	0.006	0	---	---	2.35	1979
1980	---	---	0.041	0.400	0.013	0	0.015	0.018	0.013	0.010	---	---	0.083	1980
1981	---	---	0.298	0.044	0.031	0.028	0	0	0	0	---	---	0.051	1981
1982	---	---	0.132	2.17	0.086	0.140	0.004	0	0	0.136	---	---	0.328	1982
1983	---	---	0.089	2.21	0.054	0.028	0.006	0	0	0	---	---	0.284	1983
1984	---	---	0.043	0.048	0.028	0.006	0	0	0	0	---	---	0.018	1984
MEAN	---	---	0.181R	3.48 R	0.248R	0.144R	0.017R	0.004R	0.010R	0.029R	---	---	0.506	MEAN

LOCATION - LAT 49 05 26 N LONG 97 36 35 W
DRAINAGE AREA, 448 km^2
NATURAL FLOW
R - REVISED SINCE JAN 1980

BUFFALO LAKE CHANNEL NEAR ALTONA - STATION NO. 05DC025

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	0.570RB ON APR 3	ORB ON MAR 1 *	673R	1977
1978	---	31.1 RB ON APR 9	ORB ON MAR 1	19 300R	1978
1979	---	127 A ON APR 30 *	OB ON MAR 1	48 700	1979
1980	---	2.50 B ON APR 2	OB ON MAR 1	1 330	1980
1981	---	0.888B ON MAR 14	0 ON APR 15	1 070	1981
1982	---	17.0 B ON APR 13	OB ON MAR 1	8 950	1982
1983	13.48 AT 21:20 CST ON APR 4 *	11.4 B ON APR 5	OB ON MAR 1	8 220	1983
1984	---	0.444B ON MAR 28	OB ON MAR 1	343	1984
				10 700R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

BURNT LAKE DRAIN NO. 1 NEAR DEERHORN - STATION NO. 05LM002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	1.83	0.881	0.388	0.092	0.042	0.003	0	---	---	0.709	1980
1981	---	---	0.048	0.234	0.108	0	0	0	0	0	---	---	0.087	1981
1982	---	---	0	0.109	0.071	0.064	0	0.013	0.008	0.001	---	---	0.080	1982
1983	---	---	0.036	1.84	0.886	4.81	1.57	0.671	0.087	0	---	---	1.74	1983
1984	---	---	0	0.089	0.083	0.002	0	0	0	0	---	---	0.036	1984
1985	---	---	0	0.884	1.28	0.728	0.111	0.037	0.018	0.008	---	---	0.838	1985
1986	---	---	0.288	1.83	1.02	0.088	0.008	0	0	0	---	---	0.727	1986
1987	---	---	0	0.888	0.382	0.013	0.008	0	0	0	---	---	0.274	1987
1988	---	---	0	0.027	0.020	0.032	0.004	0.052	0.503	0.073	---	---	0.018	1988
1989	---	---	0	1.08	0.248	0.050	0.035	0.080	0.007	0.010	---	---	0.335	1989
1970	---	---	0	0.888	1.09	0.171	0.047	0.001	0	0	---	---	0.482	1970
1971	---	---	0	0.281	0.083	0.007	0.008	0	0	0	---	---	0.080	1971
1972	---	---	0	0.273	0.072	0.008	0.001	0.001	0	0	---	---	0.087	1972
1973	---	---	0.018	0.008	0.005	0.070	---	0.021	0.011	0.027	---	---	0.024	1973
1974	---	---	0	2.08	4.07	0.844	---	0.051	0.020	0.011	---	---	1.78	1974
1975	---	---	0	0.181	---	---	---	2.28	2.05	0.785	---	---	---	1975
1976	---	---	0.144	8.80	3.48	0.880	---	0.034	0.005	0.005	---	---	2.88	1976
1977	---	---	0.003	0.028	0.055	0.048	---	---	---	---	---	---	0.034	1977
1978	---	---	0	0.885	0.311	0.088	---	---	---	---	---	---	0.330	1978
1979	---	---	0	0.805	3.74	1.84	---	---	---	---	---	---	1.83	1979
1980	---	---	0	0.280	0.090	0.018	---	---	---	---	---	---	0.085	1980
1981	---	---	0.031	0.198	0.081	0.032	---	---	---	---	---	---	0.080	1981
1982	---	---	0.007	0.387	0.280	0.148	---	---	---	---	---	---	0.190	1982
1983	---	---	0.001	0.898	0.238	0.078	---	---	---	---	---	---	0.325	1983
1984	---	---	0	0.002	0.008	---	---	---	---	---	---	---	---	1984
MEAN	---	---	0.023	0.915	0.718	0.428	0.148	0.188	0.188	0.083	---	---	0.548	MEAN

LOCATION - LAT 60 48 38 N DRAINAGE AREA, 334 km²
LONG 98 02 27 W NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

BURNT LAKE DRAIN NO. 1 NEAR DEERHORN - STATION NO. 05LM002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	4.30 ON APR 19	0 E ON MAR 1 *	7 480	1980
1981	---	0.388 ON MAR 30	0 E ON MAR 1	1 020	1981
1982	---	0.685 ON APR 22	0 E ON MAR 1	838	1982
1983	---	12.3 ON JUN 12	0 E ON MAR 1	18 300	1983
1984	---	0.2688 ON APR 20	0 E ON MAR 1	380	1984
1985	---	4.42 ON MAY 28	0 E ON MAR 1	6 710	1985
1986	---	4.84 E ON APR 1	0 E ON MAR 1	7 870	1986
1987	---	2.83 E ON APR 17	0 E ON MAR 1	2 880	1987
1988	---	0.093 ON APR 12	0 E ON MAR 1	205	1988
1989	---	2.84 ON APR 17	0 E ON MAR 1	3 630	1989
1970	---	2.41 E ON APR 19	0 E ON MAR 1	4 870	1970
1971	---	0.718 ON APR 19	0 E ON MAR 1	848	1971
1972	---	1.18 ON APR 18	0 E ON MAR 1	917	1972
1973	---	0.193 ON JUN 21	0 E ON MAR 1	256	1973
1974	---	8.88 ON MAY 3	0 E ON MAR 1	18 800	1974
1975	---	---	---	---	1975
1976	---	13.0 ON APR 30 *	0.1448 ON MAR 1	30 400	1976
1977	---	0.178 ON MAY 19	0 E ON MAR 1	357	1977
1978	---	2.39 ON APR 18	0 E ON MAR 1	3 470	1978
1979	---	8.35 ON MAY 3	0 E ON MAR 1	16 100	1979
1980	---	0.800 ON APR 18	0 E ON MAR 1	1 010	1980
1981	0.321 AT 00:00 CST ON APR 8 *	0.3128 ON APR 4	0 E ON MAR 1	846	1981
1982	---	1.03 E ON APR 18	0 E ON MAR 1	2 000	1982
1983	---	1.93 E ON APR 8	0 E ON MAR 1	3 430	1983
1984	---	---	0 E ON MAR 1	---	1984
				5 750	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BURNT LAKE DRAIN NO. 2 NEAR LUNDAR - STATION NO. 05LN003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	2.62	1.43	0.364	0.126	0.008	0	0	---	---	0.590	1980
1981	---	---	0.076	0.190	0.109	0.001	0	0	0.006	0	---	---	0.048	1981
1982	---	---	0	0.418	0.107	0.084	0	0.027	0.003	0	---	---	0.078	1982
1983	---	---	0.158	3.61	0.803	8.77	2.00	0.764	0.181	0.078	---	---	1.74	1983
1984	---	---	0	0.306	0.229	0.008	0	0	0	0	---	---	0.068	1984
1985	---	---	0	0.767	1.32	0.762	0.128	0.038	0.020	0.013	---	---	0.376	1985
1986	---	---	0.234	1.78	1.81	0.143	0.014	0	0	0	---	---	0.509	1986
1987	---	---	0	1.43	0.485	0.028	0.001	0	0	0	---	---	0.241	1987
1988	---	---	0.032	0.191	0.087	0.080	0.008	0.044	0.829	0.131	---	---	0.170	1988
1989	---	---	0	1.83	0.256	0.068	0.039	0.218	0.012	0.013	---	---	0.304	1989
1970	---	---	0	1.18	1.28	0.201	0.059	0.003	0.001	0.001	---	---	0.341	1970
1971	---	---	0	0.467	0.117	0.013	0.031	0	0	0.001	---	---	0.080	1971
1972	---	---	0	0.708	0.108	0.010	0	0.001	0	0	---	---	0.102	1972
1973	---	---	0.068	0.008	0.008	0.333	0.034	0.020	0.018	0.068	---	---	0.068	1973
1974	---	---	0	4.52	11.0	2.84	0.204	0.067	0.032	0.018	---	---	2.38	1974
1975	---	---	0	0.380	0.718	0.334	0.088	5.18	7.82	4.83	---	---	2.38	1975
1976	---	---	0.142	18.1	5.80	1.04	0.480	0.038	0.008	0.008	---	---	2.68	1976
1977	---	---	0.018	0.082	0.123	0.182	0.280	0.080	0.221	0.241	---	---	0.150	1977
1978	---	---	0	1.82	0.673	0.147	0.285	0.007	0.018	0.008	---	---	0.387	1978
1979	---	---	0	5.08	7.58	3.80	0.842	0.084	0.032	0.023	---	---	2.14	1979
1980	---	---	0	0.490	0.074	0.024	0.072	0.674	0.622	0.271	---	---	0.285	1980
1981	---	---	0.202	0.371	0.082	0.035	0.480	0.005	0.018	0.103	---	---	0.180	1981
1982	---	---	0.014	0.880	0.418	0.358	0.227	0.083	0.011	0.018	---	---	0.220	1982
1983	---	---	0.011	1.84	0.388	0.170	0.178	0.017	0.148	0.535	---	---	0.382	1983
1984	---	---	0.023	0.028	0.028	0.028	0.018	0	0.008	0.023	---	---	0.020	1984
MEAN	---	---	0.038	1.87	1.38	0.708	0.224	0.281	0.388	0.288	---	---	0.842	MEAN

LOCATION - LAT 50 43 17 N DRAINAGE AREA, 748 km²
LONG 98 05 24 W NATURAL FLOW

BURNT LAKE DRAIN NO. 2 NEAR LUNDAR - STATION NO. 05LN003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1980	---	7.05 ON APR 19	0 B ON MAR 1 *	12 500	1980
1981	---	0.388 ON APR 1	0 B ON MAR 1	1 010	1981
1982	---	3.62 B ON APR 20	0 B ON MAR 1	1 870	1982
1983	---	18.2 ON JUN 11	0 B ON MAR 1	36 700	1983
1984	---	1.01 ON APR 18	0 B ON MAR 1	1 440	1984
1985	---	5.21 ON MAY 27	0 B ON MAR 1	8 000	1985
1986	---	5.36 B ON APR 1	0 B ON MAR 1	10 600	1986
1987	---	8.48 B ON APR 22	0 B ON MAR 1	5 100	1987
1988	---	2.62 ON SEP 3	0 B ON MAR 1	3 810	1988
1989	---	8.14 ON APR 12	0 B ON MAR 1	8 450	1989
1970	---	3.88 B ON APR 18	0 B ON MAR 1	7 220	1970
1971	---	2.13 ON APR 19	0 B ON MAR 1	1 680	1971
1972	---	3.17 ON APR 18	0 B ON MAR 1	2 180	1972
1973	---	1.36 ON JUN 20	0 B ON MAR 1	1 380	1973
1974	---	14.4 ON MAY 22	0 B ON MAR 1	48 600	1974
1975	---	14.2 ON AUG 25	0 B ON MAR 1	50 500	1975
1976	---	27.8 ON APR 19 *	0.0018 ON OCT 30	80 800	1976
1977	---	0.888 ON SEP 8	0 B ON MAR 1	3 170	1977
1978	---	3.45 ON APR 15	0 B ON MAR 1	7 780	1978
1979	19.8 AT 02:15 CST ON APR 21 *	18.5 ON APR 21	0 B ON MAR 1	46 400	1979
1980	7.03 AT 12:30 CST ON AUG 21	5.76 ON AUG 21	0 B ON MAR 1	5 810	1980
1981	5.74 AT 04:48 CST ON JUL 3	4.18 ON JUL 3	0 B ON MAR 1	3 380	1981
1982	2.88 B AT 08:44 CST ON APR 18	2.27 B ON APR 18	0 B ON MAR 1	4 880	1982
1983	4.33 B AT 18:53 CST ON APR 8	3.67 B ON APR 7	0 B ON MAR 1	8 050	1983
1984	0.3418 AT 08:19 CST ON MAR 31	0.1658 ON MAR 31	0 B ON MAR 1	430	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		13 600	MEAN

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 06TE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	9.42	7.11	6.63	27.3	74.7	60.6	58.3	41.3	38.6	30.0	26.4	18.3	34.8	1977
1978	11.8	8.94	6.62	8.73	---	33.8	---	36.6	27.1	88.8	32.8	17.6	---	1978
1979	12.6	8.97	8.34	8.88	89.7	88.4	81.0	---	---	40.8	32.7	12.0	---	1979
1980	9.26	8.08	7.67	26.1	26.3	18.2	17.1	---	74.1	84.4	34.1	18.0	---	1980
1981	14.1	8.73	7.32	8.88	83.7	38.4	30.4	26.3	13.0	22.6	22.8	13.3	24.0	1981
1982	10.7	8.08	6.72	12.3	132	62.2	40.2	30.4	23.0	23.8	17.3	10.2	33.2	1982
1983	8.77	7.86	6.76	17.3	104	70.7	48.6	33.2	28.8	30.2	27.8	17.1	38.1	1983
1984	11.3	8.48	8.82	80.4	78.8	58.2	48.2	33.4	88.8	85.8	42.1	28.6	48.8	1984
MEAN	11.0	8.27	8.88	18.8	81.1	88.8	41.7	33.2	38.7	44.3	28.8	18.3	33.8	MEAN

LOCATION - LAT 88 27 80 N DRAINAGE AREA, 8 880 km²
LONG 88 08 00 W NATURAL FLOW

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 05TG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	131 ON MAY 27	130 ON MAY 26	4.868 ON MAR 30	1 100 000	1977
1978	---	88.8 ON OCT 6	4.538 ON APR 21	---	1978
1979	130 AT 20:40 CST ON JUN 2	130 ON JUN 2	4.308 ON APR 21 *	---	1979
1980	---	---	7.598 ON MAR 28	---	1980
1981	160 AT 13:30 CST ON MAY 8	158 ON MAY 8	8.518 ON APR 26	788 000	1981
1982	194 AT 16:10 CST ON MAY 3 *	188 ON MAY 3 *	8.788 ON APR 23	1 080 000	1982
1983	118 AT 01:15 CST ON MAY 22	115 ON MAY 21	8.128 ON APR 18	1 110 000	1983
1984	161 AT 22:38 CST ON APR 21	161 ON APR 23	8.258 ON APR 7	1 280 000	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 080 000	MEAN

BURNTWOOD RIVER NEAR THOMPSON - STATION NO. 05TG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	---	---	---	83.7	80.3	37.4	---	1957
1958	28.1	21.7	22.3	44.9	132	158	116	88.4	80.7	131	120	75.1	88.4	1958
1959	41.0	32.3	18.1	18.1	213	480	342	204	188	181	118	71.2	168	1959
1960	38.4	27.4	24.8	21.8	141	410	238	107	88.2	32.8	23.8	13.7	84.7	1960
1961	8.48	6.28	7.83	8.83	88.8	158	108	74.2	48.0	32.8	27.7	24.1	47.8	1961
1962	20.0	17.8	18.3	13.1	284	440	288	127	78.4	80.0	48.3	38.7	118	1962
1963	27.5	21.8	18.8	28.2	242	298	188	128	124	120	134	70.7	118	1963
1964	36.0	28.0	21.2	21.4	198	324	118	138	238	222	143	84.8	122	1964
1965	58.0	40.8	28.7	23.8	284	408	278	137	84.7	88.3	88.2	83.8	131	1965
1966	48.8	38.8	28.7	28.8	178	306	380	188	88.8	81.8	38.8	21.8	133	1966
1967	20.2	18.0	18.8	14.8	78.4	298	230	148	88.8	42.0	38.4	38.4	83.2	1967
1968	28.0	23.8	20.1	21.3	181	280	182	118	88.0	187	158	107	118	1968
1969	87.4	28.1	28.1	88.8	158	188	124	78.8	182	388	268	188	141	1969
1970	80.8	83.8	38.8	28.8	138	287	382	208	137	100	182	117	138	1970
1971	87.8	43.4	31.0	44.8	201	227	242	221	188	224	288	181	183	1971
1972	118	80.3	82.7	41.8	287	283	238	178	134	188	128	83.1	148	1972
1973	84.7	38.8	32.1	23.8	127	188	188	133	103	88.8	82.0	70.3	82.7	1973
1974	83.1	40.8	38.2	23.8	183	181	124	88.4	41.8	33.0	28.8	18.8	88.2	1974
1975	18.2	18.8	12.8	13.8	88.4	188	140	104	70.0	88.8	82.1	28.3	87.8	1975
1976	40.1	82.8	88.0	88.0	84.1	148	238	181	183	281	333	352	188	1976
1977	370	388	380	404	488	640	534	570	848	811	833	824	804	1977
1978	877	881	858	881	842	853	813	887	883	888	883	830	888	1978
1979	838	838	837	880	778	802	788	780	822	851	818	884	888	1979
1980	884	886	900	918	888	828	884	878	841	838	838	874	887	1980
1981	881	882	838	844	887	880	1 080	1 080	828	888	887	888	900	1981
1982	883	881	888	888	838	888	884	878	880	1 010	1 010	881	788	1982
1983	834	880	888	843	814	843	812	807	818	871	1 000	847	838	1983
1984	888	838	837	1 080	1 120	1 110	1 080	887	788	838	888	888	878	1984
MEAN	272	283	243	243	388	441	408	384	343	348	345	321	330	MEAN

LOCATION - LAT 58 44 40 N DRAINAGE AREA, 18 100 km²
LONG 97 53 30 W REGULATED SINCE 1973

REMARKS - DISCHARGE RECORDS FOR 1957-81 WERE PUBLISHED UNDER THE TITLE "BURNTWOOD RIVER AT MANASAN FALLS"

BURNTWOOD RIVER NEAR THOMPSON - STATION NO. 05TG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	188 ON JUN 13	20.4 B ON FEB 13	3 880 000	1958
1959	---	408 ON JUN 19	11.8 B ON APR 8	4 800 000	1959
1960	---	458 ON JUN 8	11.8 E ON DEC 21	2 880 000	1960
1961	---	184E ON JUN 11	7.78E ON MAR 21 *	1 810 000	1961
1962	807 AT 08:00 CST ON MAY 30	804 ON MAY 28	12.8 B ON APR 24	3 880 000	1962
1963	---	331 ON MAY 31	17.8 B ON APR 4	3 710 000	1963
1964	278 AT 17:00 CST ON SEP 22	277 ON SEP 22	18.8 B ON APR 10	3 870 000	1964
1965	480 AT 14:30 CST ON JUN 12	480 ON JUN 12	20.2 ON APR 22	4 140 000	1965
1966	---	578 ON JUN 18	18.8 ON DEC 31	4 210 000	1966
1967	314 AT 18:30 CST ON JUN 13	3118 ON JUN 11	14.0 A ON APR 27	2 830 000	1967
1968	---	287 ON MAY 28	18.4 ON APR 3	3 830 000	1968
1969	418 AT 13:00 CST ON OCT 18	418 ON OCT 18	21.3 E ON MAR 28	4 440 000	1969
1970	---	388 ON JUL 8	21.0 ON APR 18	4 270 000	1970
1971	300 AT 08:88 CST ON NOV 7	300 ON NOV 7	27.2 ON APR 14	5 130 000	1971
1972	284 AT 08:41 CST ON MAY 28	288 ON MAY 23	28.7 E ON APR 23	4 880 000	1972
1973	---	188 ON JUN 4	21.0 ON APR 28	2 820 000	1973
1974	228 AT 08:30 CST ON MAY 17	218 ON MAY 17	14.8 ON APR 18	2 180 000	1974
1975	188 AT 08:00 CST ON JUL 3	178 ON JUN 28	10.3 ON APR 12	2 130 000	1975
1976	277 AT 17:20 CST ON DEC 31	274 ON DEC 30	22.8 ON JAN 1	5 330 000	1976
1977	843 AT 13:00 CST ON NOV 16	840 ON NOV 15	340 B ON APR 2	18 100 000	1977
1978	---	880 ON OCT 13	800 B ON APR 28	27 100 000	1978
1979	---	9378 ON FEB 15	882 B ON MAY 13	27 400 000	1979
1980	881 AT 21:28 CST ON SEP 28	878 ON SEP 24	788 ON MAY 30	28 400 000	1980
1981	1 130 AT 21:30 CST ON JUL 28 *	1 130 ON JUL 28	818 B ON DEC 31	28 400 000	1981
1982	1 030 AT 10:04 CST ON SEP 28	1 030 ON SEP 28	878 B ON JAN 18	34 700 000	1982
1983	---	1 020E ON NOV 23	833 B ON APR 18	28 800 000	1983
1984	---	1 220 ON APR 26 *	778 ON SEP 18	30 800 000	1984
	A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		18 400 000	MEAN

CHURCHILL RIVER ABOVE GRANVILLE FALLS - STATION NO. 05EA005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	---	---	---	---	---	---	---	---	---	1948
1949	---	---	---	---	---	---	---	---	---	---	---	---	---	1949
1950	---	---	---	---	---	---	---	1 080	1 020	884	827	708	---	1950
1951	848	823	812	885	817	883	803	812	871	883	895	889	803	1951
1952	885	835	835	832	812	870	870	878	838	828	805	820	807	1952
1953	812	885	878	858	886	742	778	938	1 270	1 230	1 150	1 010	837	1953
1954	841	794	890	784	1 020	1 130	1 080	958	822	728	785	818	858	1954
1955	778	722	888	834	897	738	838	884	839	837	835	835	838	1955
1956	847	881	858	847	884	845	818	880	788	708	872	883	888	1956
1957	885	886	852	857	782	884	927	881	817	878	814	778	788	1957
1958	738	890	844	822	770	1 140	1 420	1 340	1 200	1 070	958	821	983	1958
1959	732	700	888	878	778	1 200	1 480	1 520	1 280	1 140	884	847	1 010	1959
1960	771	718	708	720	882	1 080	1 010	830	881	881	708	890	788	1960
1961	883	708	712	887	884	1 340	1 090	905	833	783	787	728	882	1961
1962	728	743	788	787	812	1 000	1 040	1 080	838	823	840	778	878	1962
1963	738	723	721	781	880	882	718	781	938	1 080	1 010	920	848	1963
1964	883	823	784	784	877	1 120	1 020	983	931	884	928	878	917	1964
1965	788	778	785	813	873	1 010	1 080	917	777	888	858	851	814	1965
1966	885	881	700	898	708	818	847	912	811	878	832	881	781	1966
1967	888	728	787	744	884	838	732	858	889	738	738	708	738	1967
1968	708	732	718	731	850	785	703	844	833	873	838	758	788	1968
1969	728	713	708	702	788	881	1 010	898	873	788	785	737	807	1969
1970	722	883	870	823	883	720	738	1 040	1 240	1 280	1 100	940	884	1970
1971	802	887	871	853	1 110	1 200	1 100	882	852	811	800	884	850	1971
1972	848	844	828	824	940	898	818	879	888	858	838	838	878	1972
1973	818	800	821	848	1 130	1 240	1 420	1 440	1 400	1 310	1 180	1 000	1 120	1973
1974	840	885	932	824	1 120	1 270	1 180	1 140	1 120	1 100	981	814	1 020	1974
1975	780	813	804	811	748	888	898	1 130	1 180	1 280	1 200	887	880	1975
1976	887	878	878	908	1 030	1 190	1 420	1 480	1 370	1 080	918	888	1 070	1976
1977	887	878	880	814	881	881	824	873	883	1 040	1 130	884	814	1977
1978	818	888	803	881	937	1 080	928	778	898	781	809	889	881	1978
1979	803	887	888	905	888	720	883	708	810	---	---	---	---	1979
1980	---	820	777	781	822	782	884	880	---	---	---	---	---	1980
1981	813	888	888	813	883	882	833	827	848	807	488	814	878	1981
1982	888	877	884	832	712	880	840	891	880	888	819	784	880	1982
1983	738	748	733	807	883	781	780	889	850	822	888	722	738	1983
1984	754	740	728	728	840	930	933	909	850	885	840	788	832	1984
MEAN	754	740	728	728	840	930	933	909	850	885	840	788	832	MEAN

LOCATION - LAT 58 09 00 N DRAINAGE AREA, 226 000 km²
LONG 100 27 30 W REGULATED SINCE 1938

CHURCHILL RIVER ABOVE GRANVILLE FALLS - STATION NO. 05EA005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1948	---	1 700 ON AUG 28 *	---	---	1948
1949	---	---	---	---	1949
1950	---	---	---	---	1950
1951	---	848E ON JAN 1	884 ON SEP 14	19 100 000	1951
1952	---	711 ON AUG 8	832E ON APR 1	18 200 000	1952
1953	---	1 280E ON SEP 7	858E ON APR 1	28 400 000	1953
1954	---	1 170 ON MAY 28	880E ON MAR 1	27 000 000	1954
1955	---	810E ON JUN 1	821E ON SEP 27	20 100 000	1955
1956	---	903 ON AUG 14	847E ON JAN 1	21 700 000	1956
1957	---	934E ON JUL 11	837E ON APR 11	24 800 000	1957
1958	1 480 AT 18:00 CST ON JUL 15	1 480 ON JUL 14	820E ON APR 13	30 100 000	1958
1959	---	1 580E ON AUG 1	888E ON MAY 1	31 800 000	1959
1960	---	1 100E ON JUN 11	843 ON SEP 27	24 800 000	1960
1961	---	1 370E ON JUN 1	888E ON JAN 1	28 800 000	1961
1962	---	1 180 ON JUL 29	728 ON JAN 1	27 700 000	1962
1963	---	1 100 ON OCT 10	885 ON JUL 31	28 800 000	1963
1964	---	1 180E ON JUN 1	788E ON APR 21	28 800 000	1964
1965	---	1 110 ON JUL 1	848 ON NOV 24	25 700 000	1965
1966	---	888E ON JUN 18	828 ON NOV 3	23 700 000	1966
1967	---	888E ON JUN 3	837 ON AUG 24	23 400 000	1967
1968	---	834 ON OCT 13	837 ON AUG 12	24 300 000	1968
1969	---	1 080 ON JUL 21	887 ON MAR 28	28 800 000	1969
1970	1 340 AT 01:13 CST ON OCT 13	1 338 ON OCT 12	801 ON APR 18	28 800 000	1970
1971	1 220 AT 20:28 CST ON JUN 16	1 220 ON JUN 17	824 ON SEP 21	30 100 000	1971
1972	1 020 AT 18:00 CST ON MAY 23	1 020 ON MAY 23	818 ON APR 12	27 800 000	1972
1973	---	1 480 ON JUL 24	783 ON FEB 19	35 300 000	1973
1974	1 300 AT 17:15 CST ON JUN 13	1 280 ON JUN 8	784 ON DEC 25	32 800 000	1974
1975	1 300 AT 20:05 CST ON OCT 28	1 300 ON OCT 27	880 ON JUN 14	30 000 000	1975
1976	1 480 AT 18:00 CST ON JUL 24 *	1 480 ON JUL 22	847 ON DEC 20	33 800 000	1976
1977	1 230 AT 08:50 CST ON NOV 1	1 210 ON OCT 30	801 ON APR 21	28 800 000	1977
1978	1 070 AT 18:40 CST ON JUN 18	1 070 ON JUN 18	885 ON SEP 21	27 800 000	1978
1979	---	878 ON MAY 3	884 ON JUL 3	---	1979
1980	878 AT 17:27 CST ON MAY 20	888 ON MAY 20	---	---	1980
1981	738 AT 18:00 CST ON MAY 22	730 ON MAY 21	488 ON NOV 3 *	18 200 000	1981
1982	888 AT 14:30 CST ON OCT 15	882 ON OCT 15	800 ON SEP 12	31 800 000	1982
1983	884 AT 18:10 CST ON MAY 2	842 ON MAY 2	898 ON OCT 15	33 300 000	1983
1984				28 300 000	1984
MEAN					MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

CHURCHILL RIVER ABOVE LEAF RAPIDS - STATION NO. 06ED004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	810	801	875	885	985	1 100	1 070	950	937	921	931	916	947	1973
1974	895	884	866	897	1 190	1 410	1 540	1 580	1 620	1 380	1 250	1 140	1 220	1974
1975	1 060	987	996	976	1 180	1 410	1 380	1 300	1 210	1 180	1 080	933	1 140	1975
1976	880	864	867	865	885	1 100	1 300	1 330	1 430	1 430	1 280	1 090	1 090	1976
1977	1 030	974	980	968	1 220	1 450	1 540	1 580	1 630	1 320	1 100	984	1 220	1977
1978	948	951	938	900	978	1 040	1 080	1 030	1 040	1 140	1 280	1 150	1 040	1978
1979	1 040	998	981	923	983	1 180	1 090	910	823	858	958	882	988	1979
1980	972	982	957	953	1 010	888	847	884	861	1 050	1 000	950	954	1980
1981	941	927	874	827	886	824	804	787	888	885	700	715	802	1981
1982	899	888	882	---	783	---	---	787	780	858	848	885	---	1982
1983	739	746	728	712	783	882	821	777	781	---	---	835	---	1983
1984	880	883	838	886	881	922	881	839	788	787	772	787	847	1984
MEAN	918	892	878	888	988	1 080	1 100	1 050	1 030	1 040	1 020	984	1 020	MEAN

LOCATION - LAT 55 39 37 N DRAINAGE AREA, 262 000 km²
LONG 100 02 55 W REGULATED SINCE 1928

CHURCHILL RIVER ABOVE LEAF RAPIDS - STATION NO. 06ED004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1973	---	1 120 ON JUN 5	855 ON APR 15	29 900 000	1973
1974	1 930 AT 03:00 CST ON JUL 27 *	1 810 ON JUL 31 *	855 ON FEB 25	38 300 000	1974
1975	1 480 AT 23:05 CST ON JUL 1	1 480 ON JUL 1	875 ON DEC 31	35 100 000	1975
1976	1 810 AT 03:12 CST ON NOV 5	1 480 ON OCT 28	833 ON JUN 19	34 600 000	1976
1977	1 810 AT 23:14 CST ON AUG 11	1 810 ON AUG 11	929E ON APR 10	36 600 000	1977
1978	1 320 AT 03:32 CST ON NOV 8	1 310 ON NOV 8	881 ON APR 22	32 700 000	1978
1979	1 210 AT 04:00 CST ON JUN 26	1 180 ON JUN 26	805 ON SEP 26	30 500 000	1979
1980	1 070 AT 05:05 CST ON OCT 31	1 080 ON OCT 14	833 ON JUL 15	30 200 000	1980
1981	973 AT 05:14 CST ON JUN 30	972 ON MAY 30	845 ON SEP 26	25 300 000	1981
1982	---	---	826 ON APR 25 *	---	1982
1983	---	---	707 ON APR 13	---	1983
1984	1 010 AT 18:20 CST ON MAY 20	1 000 ON MAY 8	739 ON OCT 15	28 800 000	1984
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		32 300 000	MEAN

E - ESTIMATED

CHURCHILL RIVER ABOVE RED HEAD RAPIDS - STATION NO. 06FD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	1 480	1 300	1 140	---	---	---	1 840	1 670	1 780	---	---	---	---	1972
1973	---	1 100	1 120	---	---	---	1 300	1 030	842	1 010	1 020	1 130	---	1973
1974	1 180	1 130	1 070	1 030	1 120	1 420	1 520	1 480	1 550	1 810	1 540	1 420	1 280	1974
1975	1 270	1 180	1 080	1 080	1 240	1 440	1 780	1 780	1 680	1 580	1 380	1 100	1 400	1975
1976	885	781	778	1 110	1 380	1 230	872	887	832	1 300	1 250	1 080	895	1976
1977	780	717	702	788	1 870	1 480	1 880	1 250	1 050	828	488	377	1 000	1977
1978	208	208	203	208	354	1 180	780	1 140	1 280	1 000	747	512	851	1978
1979	400	388	237	188	420	1 030	1 110	---	---	---	212	183	---	1979
1980	148	182	158	274	481	830	733	821	1 880	688	582	345	572	1980
1981	288	228	212	204	---	825	238	151	117	280	204	151	---	1981
1982	137	130	124	118	---	701	855	285	308	328	277	220	---	1982
1983	178	134	105	88.7	228	---	327	---	---	803	463	295	---	1983
1984	201	177	187	---	---	---	---	---	81.8	181	187	187	---	1984
MEAN	881	879	848	810	848	1 130	1 080	1 040	1 030	898	888	888	888	MEAN

LOCATION - LAT 58 07 15 N DRAINAGE AREA, 287 000 km²
LONG 94 37 30 W REGULATED SINCE 1928

CHURCHILL RIVER ABOVE RED HEAD RAPIDS - STATION NO. 06FD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1972	---	---	---	---	1972
1973	---	---	788 B ON NOV 7	---	1973
1974	1 740 AT 08:00 CST ON AUG 10	1 730 ON AUG 9	1 020 B ON APR 10	43 000 000	1974
1975	1 810 AT 14:57 CST ON JUN 30	1 680 ON JUN 30	888 B ON DEC 31	44 300 000	1975
1976	---	1 850E ON JUN 5	834 ON JUL 10	31 800 000	1976
1977	2 000 AT 20:41 CST ON JUL 2 *	1 880 ON JUL 2	210 B ON DEC 20	31 800 000	1977
1978	1 670 AT 17:37 CST ON SEP 5	1 650 ON SEP 5	202 B ON MAR 28	20 800 000	1978
1979	1 290 AT 08:43 CST ON JUL 17	1 180 ON JUL 17	183 B ON DEC 31	---	1979
1980	---	2 220 ON SEP 8 *	148 B ON JAN 9	18 100 000	1980
1981	---	---	107 ON SEP 30	---	1981
1982	---	---	---	---	1982
1983	---	---	88.88 ON MAY 8 *	---	1983
1984	---	---	---	---	1984
	B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD			31 800 000	MEAN

E - ESTIMATED

CHURCHILL RIVER BELOW FIDLER LAKE - STATION NO. 05FB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	---	---	---	1 490	---	---	---	1960
1962	---	---	---	---	---	---	2 140	1 820	---	---	---	---	---	1962
1963	---	---	---	---	---	---	1 580	---	---	---	---	---	---	1963
1964	---	---	---	---	---	---	1 130	---	---	1 240	1 320	1 290	---	1964
1965	1 300	1 110	1 020	1 100	1 250	1 440	1 410	1 300	1 150	---	---	---	---	1965
1966	---	---	---	---	---	---	---	---	---	824	828	784	---	1966
1967	756	740	---	---	---	---	1 350	1 230	1 080	861	---	---	---	1967
1968	748	787	781	800	928	1 310	1 280	1 100	1 010	1 080	1 070	935	986	1968
1969	798	777	793	851	973	1 100	1 110	967	1 130	1 350	1 270	1 100	1 020	1969
1970	893	815	756	886	924	1 320	1 310	1 290	1 270	1 230	1 230	1 100	1 070	1970
1971	942	883	861	787	1 100	1 620	1 410	1 300	1 530	1 540	1 380	1 210	1 211	1971
1972	1 280	1 170	1 130	1 050	1 240	1 470	1 540	1 430	1 290	1 180	1 100	1 120	1 280	1972
1973	1 100	1 030	992	956	1 120	1 240	1 220	990	818	851	1 040	1 090	1 050	1973
1974	1 110	1 070	1 020	977	1 020	1 270	1 430	1 580	1 550	1 520	1 450	1 370	1 280	1974
1975	1 290	1 190	1 100	1 050	1 190	1 440	1 550	1 550	1 540	1 450	1 320	1 060	1 340	1975
1976	978	804	761	1 100	1 240	884	473	526	775	1 110	1 240	1 180	921	1976
1977	995	867	733	756	1 370	1 750	1 550	1 180	818	748	480	258	906	1977
1978	188	189	198	203	408	956	532	758	892	713	711	809	533	1978
1979	535	377	220	189	261	461	946	497	188	188	177	147	337	1979
1980	128	128	127	171	225	348	463	490	1 180	810	388	280	374	1980
1981	241	207	204	198	271	185	89.3	78.1	84.6	184	183	128	170	1981
1982	120	108	113	113	181	248	375	117	138	200	172	135	168	1982
1983	117	88.4	86.6	86.2	83.8	---	---	---	---	---	---	---	---	1983
1984	181	151	137	---	---	---	---	81.7	88.8	130	185	134	---	1984
MEAN	714	657	612	650	811	1 030	1 180	958	918	844	871	784	845	MEAN

LOCATION - LAT 57 15 00 N DRAINAGE AREA, 271 000 km²
LONG 96 47 45 W REGULATED SINCE 1928

CHURCHILL RIVER BELOW FIDLER LAKE - STATION NO. 05FB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	---	---	---	1960
1962	---	---	---	---	1962
1963	---	---	---	---	1963
1964	---	---	---	---	1964
1965	---	1 550 ON JUN 18	---	---	1965
1966	---	---	---	---	1966
1967	---	---	---	---	1967
1968	---	1 380 ON JUN 22	736 B ON JAN 1	31 100 000	1968
1969	---	1 400 ON OCT 26	778 B ON FEB 3	32 200 000	1969
1970	---	1 340 ON JUN 15	885 B ON APR 14	33 700 000	1970
1971	1 800 AT 15:31 CST ON JUL 13	1 780 ON JUL 13	782 B ON APR 13	38 200 000	1971
1972	---	1 570 ON JUL 22	1 040 ON APR 16	38 500 000	1972
1973	1 280 AT 19:00 CST ON JUN 14	1 280 ON JUN 14	863 ON AUG 26	33 200 000	1973
1974	1 570 AT 22:00 CST ON AUG 28	1 570 ON AUG 18	868 ON APR 17	40 400 000	1974
1975	1 710 AT 20:45 CST ON JUL 9	1 700 ON JUL 8	1 010 B ON DEC 30	42 100 000	1975
1976	1 580 AT 14:30 CST ON JUN 3	1 540 ON JUN 3	463 ON JUL 6	28 100 000	1976
1977	1 820 AT 14:07 CST ON JUN 22 *	1 810 ON JUN 20 *	199 B ON DEC 20	30 500 000	1977
1978	1 470 AT 20:31 CST ON SEP 2	1 460 ON SEP 4	199 B ON JAN 1	16 600 000	1978
1979	902 AT 14:27 CST ON JUL 18	885 ON JUL 18	118 E ON SEP 23	10 800 000	1979
1980	1 710 AT 14:04 CST ON SEP 7	1 710 ON SEP 7	127 B ON MAR 8	11 800 000	1980
1981	371 AT 20:47 CST ON MAY 23	367 ON MAY 22	80.3 ON SEP 20 *	5 360 000	1981
1982	---	613 ON JUL 10	88.1 ON AUG 14	5 330 000	1982
1983	---	---	---	---	1983
1984	---	---	---	---	1984
				26 700 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

COCHRANE RIVER NEAR BROCHET - STATION NO. 06DA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	88.8	88.6	77.8	---	---	---	---	188	188	---	---	---	---	1968
1969	142	112	99.1	89.0	122	---	---	---	---	---	---	---	---	1969
1970	114	108	97.3	---	---	---	128	121	149	188	188	137	---	1970
1971	121	113	102	---	---	---	---	---	301	218	188	188	---	1971
1972	143	117	94.9	87.4	180	242	284	234	228	211	177	188	178	1972
1973	147	132	121	110	183	192	188	170	142	124	128	111	148	1973
1974	104	99.1	96.4	88.7	---	---	178	184	178	181	142	128	---	1974
1975	117	108	102	104	178	212	227	220	180	178	184	128	183	1975
1976	130	128	124	148	147	228	228	187	188	218	188	173	188	1976
1977	188	144	138	172	283	314	388	235	208	288	238	184	240	1977
1978	188	131	118	113	208	388	347	272	272	388	238	185	208	1978
1979	178	141	128	111	181	207	284	188	182	183	148	137	188	1979
1980	118	107	102	131	187	148	183	208	248	228	184	182	181	1980
1981	128	122	118	128	178	208	187	184	148	128	108	86.8	143	1981
1982	88.7	88.7	81.8	78.8	171	214	188	188	181	148	131	117	138	1982
1983	188	184	88.8	87.8	118	182	218	223	281	283	217	188	171	1983
1984	148	128	107	148	231	231	282	188	178	183	134	117	184	1984
MEAN	128	118	108	118	178	221	214	202	187	183	188	148	178	MEAN

LOCATION - LAT 58 00 00 N DRAINAGE AREA, 35 000 km²
LONG 101 23 45 W NATURAL FLOW

COCHRANE RIVER NEAR BROCHET - STATION NO. 09DA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	---	---	---	1968
1969	---	---	---	---	1969
1970	---	---	---	---	1970
1971	---	---	---	---	1971
1972	285 AT 18:00 CST ON JUN 26	264 ON JUN 26	84.18 ON APR 4	5 870 000	1972
1973	203 AT 15:45 CST ON JUN 12	202 ON JUN 13	108 B ON APR 23	4 570 000	1973
1974	---	---	---	---	1974
1975	248 AT 14:17 CST ON JUL 12	243 ON JUL 10	101 B ON APR 6	5 100 000	1975
1976	257 AT 19:25 CST ON JUN 28	255 ON JUN 27	124 B ON FEB 27	5 880 000	1976
1977	388 AT 18:23 CST ON JUL 22 *	385 ON JUL 21 *	139 B ON MAR 6	7 570 000	1977
1978	306 AT 13:30 CST ON AUG 24	303 ON AUG 23	112 B ON MAR 28	6 470 000	1978
1979	215 AT 19:20 CST ON MAY 22	215 ON MAY 22	110 B ON APR 10	4 870 000	1979
1980	254 AT 10:01 CST ON SEP 1	253 ON AUG 31	102 B ON MAR 21	5 080 000	1980
1981	212 AT 12:00 CST ON JUN 16	212 ON JUN 17	92.18 ON DEC 31	4 510 000	1981
1982	222 AT 19:25 CST ON JUN 15	222 ON JUN 15	78.08 ON APR 15 *	4 260 000	1982
1983	270 AT 19:05 CST ON SEP 27	270 ON SEP 27	86.58 ON MAY 5	5 400 000	1983
1984	267 ON APR 27	254 ON APR 27	93.48 ON APR 9	5 180 000	1984
				5 380 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

CONJURING CREEK NEAR RUSSELL - STATION NO. 09MD005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.048	0.051	0.002	0.004	0.018	0	0	0	---	---	0.025	1959
1960	---	---	0	1.08	0.170	0.107	0	0	0	0	---	---	0.184	1960
1961	---	---	0.002	0.001	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0.381	0.068	0	0	0	0	0	---	---	0.053	1962
1963	---	---	0.193	0.057	0	0	0	0	0	0	---	---	0.031	1963
1964	---	---	0	0.298	0 080	0	0	0	0	0	---	---	0.048	1964
1965	---	---	0	0.556	0.100	0.015	0	0	0.035	0.036	---	---	0.082	1965
1966	---	---	0.035	0.839	0.225	0.008	0.001	0	0	0	---	---	0.149	1966
1967	---	---	0	0.408	0.251	0.002	0	0	0	0	---	---	0.082	1967
1968	---	---	0.184	0.283	0.008	0	0	0	0	0	---	---	0.060	1968
1969	---	---	0	0.890	0.008	0	0.005	0	0	0	---	---	0.085	1969
1970	---	---	0	0.493	0.385	0.009	0	0	0	0	---	---	0.110	1970
1971	---	---	0	0.480	0.038	0.178	0.148	0.013	0	0.010	---	---	0.104	1971
1972	---	---	0	1.18	0.204	0	0	0	0	0	---	---	0.172	1972
1973	---	---	0.056	0.005	0	0.026	0	0.005	0.185	0.180	---	---	0.052	1973
1974	---	---	0	1.81	0.638	0.098	0	0	0	0	---	---	0.328	1974
1975	---	---	0	0.705	0.222	0.038	0	0	0.038	0.018	---	---	0.137	1975
1976	---	---	0.001	1.45	0.083	0.236	0.088	0.183	0.126	0	---	---	0.282	1976
1977	---	---	0	0.273	0.112	0.012	0.022	0.070	0.021	0.018	---	---	0.065	1977
1978	---	---	0.005	0.728	0.113	0.002	0	0.038	0.005	0.005	---	---	0.110	1978
1979	---	---	0	1.38	0.841	0.038	0	0	0	0	---	---	0.282	1979
1980	---	---	0	0.175	0.001	0	0	0	0	0	---	---	0.022	1980
1981	---	---	0.130	0.130	0	0	0.001	0.001	0	0	---	---	0.034	1981
1982	---	---	0.003	0.288	0.003	0	0	0	0	0	---	---	0.037	1982
1983	---	---	0	0.804	0.130	0.018	0.217	0.002	0	0	---	---	0.145	1983
1984	---	---	0.061	0.048	0.008	0.004	0	0	0	0	---	---	0.018	1984
MEAN	---	---	0.038	0.572	0.142	0.034	0.020	0.011	0.015	0.008	---	---	0.102	MEAN

LOCATION - LAT 50 47 30 N DRAINAGE AREA, 88.1 km^2
LONG 101 17 55 W NATURAL FLOW

CONJURING CREEK NEAR RUSSELL - STATION NO. 05MG006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	0.651 ON MAR 30	0B ON MAR 1 *	526	1959
1960	---	5.47 ON APR 13	0B ON MAR 1	3 470	1960
1961	---	0.0088 ON MAR 21	0B ON MAR 1	8.28	1961
1962	---	3.78 B ON APR 20	0B ON MAR 1	1 120	1962
1963	---	1.09 B ON MAR 24	0B ON MAR 1	884	1963
1964	---	1.61 B ON APR 16	0B ON MAR 1	1 010	1964
1965	---	4.19 ON APR 14	0B ON MAR 1	1 950	1965
1966	---	3.34 ON APR 3	0B ON MAR 1	3 150	1966
1967	---	2.81 B ON APR 23	0B ON MAR 1	1 740	1967
1968	---	0.8068 ON MAR 28	0B ON MAR 1	1 270	1968
1969	---	4.11 ON APR 11	0B ON MAR 1	1 830	1969
1970	---	1.40 ON APR 30	0B ON MAR 1	2 330	1970
1971	---	1.84 B ON APR 9	0B ON MAR 1	2 210	1971
1972	---	4.18 ON APR 21	0B ON MAR 1	3 840	1972
1973	---	1.00 ON OCT 5	0B ON MAR 1	1 100	1973
1974	15.9 B AT 22:18 CST ON APR 18 *	12.5 ON APR 19 *	0B ON MAR 1	8 810	1974
1975	5.76 B AT 08:11 CST ON APR 21	4.36 B ON APR 21	0B ON MAR 1	2 880	1975
1976	---	5.18 B ON APR 7	0B ON MAR 1	5 580	1976
1977	---	1.11 B ON APR 7	0B ON MAR 1	1 280	1977
1978	---	1.84 ON APR 18	0B ON MAR 1	2 330	1978
1979	6.86 B AT 13:46 CST ON APR 22	7.30 B ON APR 22	0B ON MAR 1	5 980	1979
1980	---	1.02 B ON APR 9	0B ON MAR 1	458	1980
1981	0.882 AT 05:38 CST ON MAR 31	0.880 ON MAR 31	0B ON MAR 1	714	1981
1982	1.28 AT 07:51 CST ON APR 18	0.974 ON APR 18	0B ON MAR 1	783	1982
1983	4.20 AT 20:54 CST ON APR 21	3.85 ON APR 22	0B ON MAR 1	3 080	1983
1984	1.65 B AT 06:30 CST ON MAR 28	1.17 B ON MAR 28	0B ON MAR 1	322	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 170	MEAN

COOKS CREEK AT COOKS CREEK - STATION NO. 05GJ006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	20.2	1.78	0.184	0.038	0.157	0.037	0.033	---	---	2.75	1980
1981	---	---	0.871	1.80	0.085	0.019	0.007	0	0	0	---	---	0.329	1981
1982	---	---	0	2.75	1.57	1.42	1.45	0.325	0.005	0.003	---	---	0.926	1982
1983	---	---	0.764	4.22	0.784	3.48	0.898	0.050	0.004	0.023	---	---	1.24	1983
1984	---	---	0.011	4.14	2.38	0.892	0.022	0	0.058	0	---	---	0.858	1984
1985	---	---	0	5.20	1.21	1.82	0.707	0.088	0.103	0.121	---	---	1.28	1985
1986	---	---	0	15.9	5.58	1.20	8.43	0.093	0.454	0.088	---	---	3.94	1986
1987	---	---	0.038	15.6	2.31	0.087	0.017	0.018	0.010	0	---	---	2.24	1987
1988	---	---	0.386	1.24	0.548	0.189	0.298	2.80	1.28	0.784	---	---	0.937	1988
1989	---	---	0	7.84	1.48	1.37	0.288	0.074	0.088	0.130	---	---	1.38	1989
1990	---	---	0	10.0	3.87	3.23	0.103	0.017	0.958	0.038	---	---	2.28	1990
1991	---	---	0	11.6	0.858	0.080	0.032	0.008	0	0.035	---	---	1.54	1991
1992	---	---	0.008	8.15	0.473	0.118	0.001	0.004	0.083	0.078	---	---	0.845	1992
1993	---	---	2.23	0.238	0.088	1.41	0.558	0.003	0.115	0.827	---	---	0.858	1993
1994	---	---	0	23.2	15.8	1.43	0.030	0	0.018	0.131	---	---	5.00	1994
1995	---	---	0	2.68	0.225	3.16	0.334	0	0	0.001	---	---	0.789	1995
1996	---	---	0	8.04	0.078	1.12	0.050	0.014	0.003	0	---	---	0.887	1996
1997	---	---	0.012	0.475	0.081	0.105	0.205	0.083	2.24	0.614	---	---	0.448	1997
1998	---	---	0	14.3	1.28	0.258	0.032	0.030	0	0	---	---	1.95	1998
1999	---	---	0	14.2	5.84	2.48	0.018	0	0	0	---	---	2.88	1999
2000	---	---	0	4.96	0.085	0.003	0	0	0	0	---	---	0.818	2000
2001	---	---	0.588	0.187	0	0	0	0	0	0	---	---	0.082	2001
2002	---	---	0.374	3.14	0.087	0.253	0.134	0.010	0	0.151	---	---	0.508	2002
2003	---	---	0.626	8.15	0.450	0.243	0.295	0	0	0	---	---	1.20	2003
2004	---	---	0.137	0.595	0.021	2.88	0.288	0.002	0	0.080	---	---	0.487	2004
MEAN	---	---	0.233	7.48	1.69	1.08	0.561	0.151	0.217	0.168	---	---	1.44	MEAN

LOCATION - LAT 50 01 12 N DRAINAGE AREA, 513 km^2
LONG 98 48 23 W NATURAL FLOW

COOKS CREEK AT COOKS CREEK - STATION NO. 05OJ006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	91.5 ON APR 13 *	0B ON MAR 1 *	58 100	1980
1981	---	6.38 ON APR 10	0B ON MAR 1	6 850	1981
1982	---	17.0 ON APR 22	0B ON MAR 1	19 800	1982
1983	---	32.3 ON JUN 5	0 ON SEP 16	25 100	1983
1984	---	16.2 ON APR 17	0 ON JUL 21	16 800	1984
1985	---	36.0 B ON APR 13	0B ON MAR 1	26 700	1985
1986	---	42.6 ON JUL 4	0B ON MAR 1	63 400	1986
1987	---	42.5 ON APR 21	0B ON MAR 1	47 500	1987
1988	---	22.9 ON AUG 25	0 ON MAR 1	19 800	1988
1989	---	32.6 B ON APR 10	0B ON MAR 1	29 500	1989
1970	---	33.7 ON APR 17	0B ON MAR 1	47 800	1970
1971	51.8 AT 03:02 CST ON APR 10	47.3 ON APR 10	0B ON MAR 1	32 700	1971
1972	26.3 B AT 08:43 CST ON APR 15	25.3 B ON APR 15	0 ON JUL 5	17 900	1972
1973	18.2 AT 03:22 CST ON JUN 21	12.7 ON JUN 21	0B ON MAR 1	13 900	1973
1974	78.2 B AT 12:15 CST ON APR 15 *	74.5 B ON APR 16	0B ON MAR 1	106 000	1974
1975	45.6 AT 15:44 CST ON JUN 23	36.1 ON JUN 23	0B ON MAR 1	16 700	1975
1976	---	26.2 B ON APR 6	0B ON MAR 1	19 000	1976
1977	11.0 AT 18:12 CST ON SEP 10	9.03 ON SEP 10	0B ON MAR 1	9 470	1977
1978	---	28.9 B ON APR 12	0B ON MAR 1	41 400	1978
1979	74.5 B AT 03:38 CST ON APR 20	73.6 B ON APR 20	0B ON MAR 1	61 000	1979
1980	25.0 B AT 07:42 CST ON APR 8	22.3 B ON APR 8	0B ON MAR 1	13 100	1980
1981	4.678 AT 00:30 CST ON MAR 27	2.268 ON MAR 27	0B ON MAR 1	1 950	1981
1982	13.8 AT 09:31 CST ON APR 14	12.3 B ON APR 15	0B ON MAR 1	10 800	1982
1983	28.8 B AT 11:10 CST ON APR 8	27.9 B ON APR 8	0B ON MAR 1	25 400	1983
1984	17.3 AT 03:14 CST ON JUN 15	14.8 ON JUN 15	0B ON MAR 8	9 890	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		30 500	MEAN

COOKS CREEK NEAR EAST SELKIRK - STATION NO. 05OJ002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	5.06	12.8	1.34	0.575	0.315	0.021	0	0	---	---	2.47	1957
1958	---	---	0.073	0.132	0.031	0.004	2.32	0.047	0	0	---	---	0.329	1958
1959	---	---	0.006	9.86	4.61	4.85	0.326	2.40	2.70	14.6	---	---	4.84	1959
1960	---	---	0	29.3	2.03	0.544	0.007	0.175	0.008	0	---	---	3.84	1960
1961	---	---	1.04	3.81	0.322	0.123	0	0	0	0	---	---	0.543	1961
1962	---	---	0	8.12	1.92	1.84	1.88	0.738	0.017	0	---	---	1.50	1962
1963	---	---	0.837	5.36	0.890	3.56	0.810	0.042	0	0	---	---	1.38	1963
1964	---	---	0	8.28	2.81	0.834	0.053	0	0.006	0	---	---	1.25	1964
1965	---	---	0	7.70	1.27	1.28	0.585	0.082	0.051	0.087	---	---	1.36	1965
1966	---	---	0	26.8	7.33	0.888	8.14	0.032	0.525	0.030	---	---	5.04	1966
1967	---	---	0.027	22.1	2.30	0.111	0.020	0	0	0	---	---	3.02	1967
1968	---	---	0.806	2.16	0.572	0.208	0.380	3.01	1.46	0.840	---	---	1.16	1968
1969	---	---	0	10.3	1.86	1.82	0.407	0.028	0.050	0.273	---	---	1.79	1969
1970	---	---	0	12.8	4.82	4.34	0.387	0	0.441	0.152	---	---	2.81	1970
1971	---	---	0	18.5	0.745	0.149	0.041	0	0	0	---	---	2.50	1971
1972	---	---	0	8.80	0.438	0.008	0	0.070	0.003	0.013	---	---	1.27	1972
1973	---	---	3.02	0.242	0.007	2.75	0.386	0	0.186	0.828	---	---	0.838	1973
1974	---	---	0	31.3	20.9	1.77	0.026	0.001	0.001	0.001	---	---	5.70	1974
1975	---	---	0	5.05	0.184	1.82	0.137	0.006	0.005	0.003	---	---	0.886	1975
1976	---	---	0	9.27	0.072	2.75	0.083	0	0	0	---	---	1.48	1976
1977	---	---	0.001	0.548	0.014	0	0.127	0	2.25	0.483	---	---	0.423	1977
1978	---	---	0.017	18.8	1.72	0.402	0.258	0.005	0.002	0.001	---	---	2.36	1978
1979	---	---	0	18.4	4.79	3.01	0.005	0	0.032	0	---	---	3.23	1979
1980	---	---	0	8.00	0	0.004	0	0	0	0	---	---	0.880	1980
1981	---	---	0.428	0.048	0.015	0	0.002	0	0	0.018	---	---	0.064	1981
1982	---	---	0.844	6.80	0.037	0.333	0.209	0	0	0.243	---	---	1.02	1982
1983	---	---	0.784	11.3	0.313	0.118	0.247	0	0	0	---	---	1.87	1983
1984	---	---	0.163	0.902	0	2.86	0.248	0	0	0.003	---	---	0.538	1984
MEAN	---	---	0.462	10.4	2.16	1.33	0.536	0.238	0.277	0.631	---	---	1.98	MEAN

LOCATION - LAT 50 08 25 N DRAINAGE AREA, 697 km^2
LONG 96 49 48 W NATURAL FLOW

COOKS CREEK NEAR EAST SELKIRK - STATION NO. 05OJ002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	63.7 ON APR 25	0B ON MAR 1 *	52 200	1957
1958	---	32.6 E ON JUL 6	0B ON MAR 1	6 980	1958
1959	---	47.9 ON OCT 11	0B ON MAR 1	105 000	1959
1960	227 AT 08:30 ON APR 14 *	201 ON APR 14 *	0B ON MAR 1	83 300	1960
1961	---	8.548 ON MAR 27	0B ON MAR 1	11 500	1961
1962	---	46.7 ON APR 21	0B ON MAR 1	31 800	1962
1963	---	38.8 ON APR 9	0B ON MAR 1	28 500	1963
1964	---	28.2 ON APR 17	0B ON MAR 1	28 400	1964
1965	---	35.4 B ON APR 13	0B ON MAR 1	28 800	1965
1966	---	58.2 ON APR 14	0B ON MAR 1	106 000	1966
1967	---	52.1 ON APR 15	0B ON MAR 1	63 800	1967
1968	---	19.2 ON AUG 26	0B ON MAR 1	24 500	1968
1969	---	58.6 ON APR 10	0B ON MAR 1	37 900	1969
1970	---	43.0 ON APR 17	0B ON MAR 1	59 500	1970
1971	---	62.9 B ON APR 11	0B ON MAR 1	53 000	1971
1972	---	45.3 B ON APR 15	0 ON MAR 1	26 600	1972
1973	27.6 AT 19:36 CST ON JUN 21	22.7 ON JUN 21	0B ON MAR 1	19 600	1973
1974	112 B AT 17:16 CST ON APR 16	106 B ON APR 16	0B ON MAR 1	142 000	1974
1975	32.6 AT 06:00 CST ON JUN 24	28.1 ON JUN 24	0B ON MAR 1	19 000	1975
1976	---	45.0 B ON APR 6	0B ON MAR 1	31 600	1976
1977	8.20 AT 10:46 CST ON SEP 11	6.84 ON SEP 11	0B ON MAR 1	6 980	1977
1978	38.9 AT 23:30 CST ON APR 11	37.1 ON APR 12	0B ON MAR 1	50 000	1978
1979	106 A AT 20:00 CST ON APR 20	99.4 ON APR 21	0B ON MAR 1	88 300	1979
1980	45.6 AT 22:00 CST ON APR 8	43.8 ON APR 8	0B ON MAR 1	20 700	1980
1981	4.94 AT 10:03 CST ON MAR 28	1.28 ON MAR 28	0B ON MAR 1	1 380	1981
1982	25.2 AT 01:26 CST ON APR 15	23.6 ON APR 15	0B ON MAR 1	21 500	1982
1983	40.0 B AT 19:33 CST ON APR 6	36.6 B ON APR 7	0B ON MAR 1	33 300	1983
1984	15.9 AT 18:51 CST ON JUN 18	12.1 ON JUN 19	0B ON MAR 1	11 400	1984
				42 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

COOKS CREEK NEAR GLASS - STATION NO. 05OJ007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	5.17	1.25	0.488	0.007	0.038	0.004	0.004	---	---	0.977	1960
1961	---	---	0.154	0.320	0.010	0.005	0	0	0.001	0.003	---	---	0.067	1961
1962	---	---	0	0.309	0.721	0.848	0.710	0.083	0.005	0.002	---	---	0.308	1962
1963	---	---	0.220	0.652	0.152	1.52	0.728	0.085	0.002	0.004	---	---	0.414	1963
1964	---	---	0	0.977	1.76	0.422	0.008	0	0.001	0.001	---	---	0.385	1964
1965	---	---	0	1.94	0.735	0.744	0.609	0.065	0.075	0.103	---	---	0.488	1965
1966	---	---	0	4.82	2.87	0.940	4.10	0.183	0.288	0.103	---	---	1.84	1966
1967	---	---	0.005	5.38	1.85	0.100	0.001	0	0	0	---	---	1.03	1967
1968	---	---	0.241	0.512	0.211	0.148	0.080	0.750	0.585	0.215	---	---	0.343	1968
1969	---	---	0	2.82	1.03	0.536	0.138	0.043	0.088	0.101	---	---	0.800	1969
1970	---	---	0	3.14	2.09	1.38	0.110	0.003	0.025	0.030	---	---	0.639	1970
1971	---	---	0	2.17	0.237	0.038	0.015	0.004	0.007	0.040	---	---	0.308	1971
1972	---	---	0	2.30	0.282	0.021	0.002	0.006	0.023	0.005	---	---	0.328	1972
1973	---	---	0.654	0.083	0.033	0.187	0.138	0.003	0.084	0.334	---	---	0.193	1973
1974	---	---	0	5.89	7.38	1.16	0.078	0.056	0.043	0.021	---	---	1.84	1974
1975	---	---	0	0.615	0.051	0.883	0.542	0.001	0.001	0.003	---	---	0.288	1975
1976	---	---	0	1.48	0.058	0.215	0.015	0.001	0	0.001	---	---	0.217	1976
1977	---	---	0	0.183	0.018	0.047	0.068	0.028	0.488	0.238	---	---	0.132	1977
1978	---	---	0.020	5.33	0.817	0.200	0.035	0.002	0.003	0.001	---	---	0.788	1978
1979	---	---	0	3.61	1.02	0.887	0.034	0.008	0.005	0.005	---	---	0.700	1979
1980	---	---	0	1.04	0.013	0.001	0.001	0.001	0.004	0.004	---	---	0.130	1980
1981	---	---	0.018	0.017	0.022	0.010	0.008	0	0.003	0.008	---	---	0.011	1981
1982	---	---	0.145	1.18	0.127	0.364	0.149	0.018	0.001	0.108	---	---	0.258	1982
1983	---	---	0.282	2.08	0.288	0.153	0.121	0	0	0	---	---	0.382	1983
1984	---	---	0.022	0.135	0.028	1.83	0.283	0.002	0	0.003	---	---	0.280	1984
MEAN	---	---	0.071	2.20	0.814	0.518	0.321	0.054	0.071	0.053	---	---	0.520	MEAN

LOCATION - LAT 49 53 10 N
LONG 96 44 26 W
DRAINAGE AREA, 183 km^2
NATURAL FLOW

COOKS CREEK NEAR GLASS - STATION NO. 08SJ007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	22.0 ON APR 12	0B ON MAR 1 *	20 700	1980
1981	---	1.14 B ON MAR 28	0B ON MAR 1	1 420	1981
1982	---	5.86 ON JUL 20	0B ON MAR 1	8 640	1982
1983	---	13.6 ON JUN 4	0 ON MAR 1	8 770	1983
1984	---	9.17 ON MAY 8	0B ON MAR 1	8 380	1984
1985	---	7.87 B ON APR 14	0B ON MAR 1	10 200	1985
1986	---	16.5 ON JUL 3	0B ON MAR 1	24 600	1986
1987	---	12.2 B ON APR 11	0B ON MAR 1	21 600	1987
1988	---	5.24 ON AUG 24	0B ON MAR 1	7 270	1988
1989	---	14.3 ON APR 9	0 ON MAR 1	12 700	1989
1970	18.1 AT 20:21 CST ON APR 18	13.6 ON APR 18	0A ON MAR 1	17 800	1970
1971	---	10.2 ON APR 10	0B ON MAR 1	8 530	1971
1972	---	8.07 B ON APR 15	0B ON MAR 1	6 800	1972
1973	5.30 AT 20:57 CST ON JUN 20	2.31 ON OCT 15	0B ON MAR 1	4 080	1973
1974	28.9 AT 16:16 CST ON MAY 22 *	28.1 ON MAY 22 *	0B ON MAR 1	41 100	1974
1975	14.5 AT 01:23 CST ON JUN 23	10.6 ON JUN 23	0B ON MAR 1	5 880	1975
1976	---	8.10 ON APR 5	0B ON MAR 1	4 590	1976
1977	4.18 AT 20:51 CST ON SEP 8	2.30 ON SEP 10	0B ON MAR 1	2 510	1977
1978	---	6.66 ON APR 11	0B ON MAR 1	16 700	1978
1979	---	18.7 ON APR 20	0B ON MAR 1	14 800	1979
1980	---	6.46 B ON APR 8	0B ON MAR 1	2 750	1980
1981	0.200 AT 08:00 CST ON MAY 25	0.178 ON MAY 25	0B ON MAR 1	230	1981
1982	8.30 AT 16:57 CST ON APR 14	4.03 B ON APR 13	0B ON MAR 1	5 480	1982
1983	---	5.33 B ON APR 1	0B ON MAR 1	7 670	1983
1984	10.2 AT 10:55 CST ON JUN 17	8.78 ON JUN 17	0B ON MAR 1	8 510	1984
				11 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

CRYSTAL CREEK NEAR CRYSTAL CITY - STATION NO. 08SB005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.288	0.026	0.026	0.034	0	0.018	0.001	0.001	---	---	0.050	1959
1960	---	---	0	2.45	0.005	0.003	0	0	0	0	---	---	0.302	1960
1961	---	---	0.612	0.439	0.010	0.001	0	0	0	0	---	---	0.133	1961
1962	---	---	0	1.59	0.019	0.013	0.001	0.024	0	0	---	---	0.202	1962
1964	---	---	0.037	0.200R	0.009	0.005	0	0	0	0	---	---	0.031R	1964
1965	---	---	0	0.188	0.158	0	0	0	0	0	---	---	0.043	1965
1966	---	---	1.08	0.228	0.038	0	0	0	0	0	---	---	0.188	1966
1967	---	---	0.040	0.418	0.032	0	0	0	0	0	---	---	0.080	1967
1968	---	---	0.188	0.045	0	0	0.052	0.743R	0.128	0	---	---	0.142R	1968
1969	---	---	0	2.57	0.022	0.021	0.033	0	0	0	---	---	0.335	1969
1970	---	---	0	2.06	0.127	0.423	0.003	0	0.011	0	---	---	0.320	1970
1971	---	---	0	1.73	0.147	0	0	0	0	0	---	---	0.230	1971
1972	---	---	1.38	1.27	0.013	0	0	0	0	0	---	---	0.333	1972
1973	---	---	0.008	0.001	0	0	0	0	0	0	---	---	0.001	1973
1974	---	---	0	3.45	1.38	0.130	0.002	0	0	0	---	---	0.611	1974
1975	---	---	0	0.583	0.087	0.010	0.001	0	0	0	---	---	0.084	1975
1976	---	---	0	2.81	0.047	0.001	0	0	0	0	---	---	0.325	1976
1977	---	---	0.003	0.005	0.024	0	0	0	0.001	0	---	---	0.004	1977
1978	---	---	0.039	1.17	0.147	0.021	0.022	0	0	0	---	---	0.172	1978
1979	---	---	0	2.30	0.808	0.074	0.001	0	0	0	---	---	0.367	1979
1980	---	---	0.003	0.187	0	0	0	0	0	0	---	---	0.021	1980
1981	---	0.018	0.337	0.005	0.112	0.010	0.001	0.002	0.001	0.001	---	---	0.047	1981
1982	---	---	0.274	0.837	0.013	0.700	0.037	0.001	0	0.004	---	---	0.230	1982
1983	---	---	0.207	0.327	0.015	0.002	0.001	0	0	0	---	---	0.068	1983
1984	---	---	0.002	0.005	0.024	0	0	0	0	0	---	---	0.015	1984
MEAN	---	0.018	0.177	0.890R	0.122	0.058	0.008	0.031R	0.006	0	---	---	0.172	MEAN

LOCATION - LAT 49 07 26 N, LONG 98 58 26 W DRAINAGE AREA, 153 km^2 NATURAL FLOW

R - REVISED SINCE JAN 1980

CRYSTAL CREEK NEAR CRYSTAL CITY - STATION NO. 05080005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.72 B ON MAR 28	OB ON MAR 1 *	1 050	1959
1960	---	12.4 ON APR 11	OB ON MAR 1	6 380	1960
1961	---	3.32 ON MAR 27	0 ON MAR 1	2 610	1961
1962	26.7 AT 17:30 CST ON APR 17 *	18.2 ON APR 17	OB ON MAR 1	4 270	1962
1964	---	0.940R ON APR 5	OB ON MAR 1	653 R	1964
1965	---	3.43 ON MAY 5	OB ON MAR 1	805	1965
1966	---	4.70 ON MAR 30	OB ON MAR 1	3 510	1966
1967	---	1.06 ON APR 24	OB ON MAR 1	1 270	1967
1968	---	8.81 R ON AUG 24	OB ON MAR 1	3 000 R	1968
1969	---	18.7 ON APR 11	OB ON MAR 1	7 120	1969
1970	---	8.35 ON APR 25	OB ON MAR 1	6 780	1970
1971	---	8.48 B ON APR 12	OB ON MAR 1	4 670	1971
1972	---	3.77 B ON MAR 21	OB ON MAR 1	7 080	1972
1973	---	0.0148 ON MAR 18	OB ON MAR 1	18.7	1973
1974	---	22.0 B ON APR 17 *	OB ON MAR 1	12 000	1974
1975	---	4.13 B ON APR 13	OB ON MAR 1	1 770	1975
1976	---	17.2 B ON APR 6	OB ON MAR 1	8 880	1976
1977	0.433 AT 11:20 CST ON MAY 20	0.366 ON MAY 20	OB ON MAR 1	90.3	1977
1978	9.48 AT 02:20 CST ON APR 6	7.22 ON APR 6	OB ON MAR 1	3 630	1978
1979	---	18.2 B ON APR 20	OB ON MAR 1	7 770	1979
1980	1.56 B AT 15:16 CST ON APR 4	1.23 B ON APR 6	OB ON MAR 1	441	1980
1981	8.77 AT 03:52 CST ON MAY 23	1.77 ON MAY 23	0 ON MAY 1	880	1981
1982	---	4.63 B ON MAR 31	OB ON MAR 1	4 880	1982
1983	1.81 B AT 08:13 CST ON APR 2	1.26 B ON APR 2	OB ON MAR 1	1 480	1983
1984	1.08 B AT 19:53 CST ON MAR 24	0.739B ON MAR 26	OB ON MAR 1	335	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980		3 630 R	MEAN

CYPRESS CREEK NEAR CLEARWATER - STATION NO. 05080010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.283	0.246	0.008	0.010	0.008	0.007	0.005	0	---	---	0.078	1959
1960	---	---	0	5.88	0.088	0.010	0	0	0	0	---	---	0.743	1960
1961	---	---	0.150R	0.283R	0.001	0	0	0	0	0	---	---	0.051R	1961
1962	---	---	0	2.87	0.016	0.087	0.353	0.251	0	0	---	---	0.438	1962
1963	---	---	0.240	0.148	0.015	2.18	0.501	0.718	0	0	---	---	0.471	1963
1964	---	---	0	1.86	0.012	0.080	0.084	0.012	0.009	0.031	---	---	0.255	1964
1965	---	---	0	0.840	0.715	0.180	1.14	0.153	0.026	0	---	---	0.305	1965
1966	---	---	1.18	0.884	0.485	0.030	0	0	0	0	---	---	0.331	1966
1967	---	---	0.052	2.65	0.328	0.008	0	0	0	0	---	---	0.378	1967
1968	---	---	0.214	0.091	0.008	0.002	0.015	0.537	0.513	0	---	---	0.172	1968
1969	---	---	0	4.07	0.013	0.118	0 322	0	0	0	---	---	0.556	1969
1970	---	---	0	3.63	1.80	3.71	0.631	0.023	0	0	---	---	1.21	1970
1971	---	---	0	10.8	0.278	0.247	0	0	0	0	---	---	1.40	1971
1972	---	---	3.42	3.03	0.070	0.013	0.008	0.007	0	0	---	---	0.818	1972
1973	---	---	0.048	0.020	0.008	0.001	0	0	0	0	---	---	0.009	1973
1974	---	---	0	10.5	2.40	0.158	0.008	0.002	0.001	0.002	---	---	1.82	1974
1975	---	---	0	2.29	0.508	0.204	0.022	0	0.001	0.001	---	---	0.373	1975
1976	---	---	0	7.74	0.038	0.002	0	0	0	0	---	---	0.852	1976
1977	---	---	0.001	0.005	0.108	0.008	0	0	0	0	---	---	0.018	1977
1978	---	---	0.003	2.28	0.308	0.048	0.010	0	0	0	---	---	0.338	1978
1979	---	---	0	7.05	1.38	0.041	0.002	0	0	0	---	---	1.04	1979
1980	---	---	0.011	0.242	0.002	0.002	0.001	0	0	0.001	---	---	0.032	1980
1981	---	0.358	0.556	0.035	0.007	0.003	0	0.055	0.004	0.003	---	---	0.083	1981
1982	---	---	0.154	3.85	0.094	7.58	0.037	0.001	0	0.007	---	---	1.44	1982
1983	---	---	0.462	1.06	0.034	0.006	0	0	0	0	---	---	0.186	1983
1984	---	---	0.177	0.081	0.041	0.008	0	0	0	0	---	---	0.045	1984
MEAN	---	0.358	0.268R	2.80 R	0.342	0.587	0.121	0.068	0.024	0.002	---	---	0.518	MEAN

LOCATION - LAT 48 05 21 N DRAINAGE AREA, 389 km^2 R - REVISED SINCE JAN 1980
LONG 98 58 54 W NATURAL FLOW

REMARKS - PUBLISHED AS "LONG RIVER" PRIOR TO 1978. THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OCCURRED IN FEB

CYPRESS CREEK NEAR CLEARWATER - STATION NO. 02306010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.86 B ON MAR 31	0B ON MAR 1 *	1 540	1959
1960	---	25.5 E ON APR 6	0B ON MAR 1	15 700	1960
1961	---	1.12 B ON MAR 27	0B ON MAR 1	1 050R	1961
1962	---	10.8 ON APR 17	0B ON MAR 1	8 260	1962
1963	---	12.4 ON JUN 10	0B ON MAR 1	9 870	1963
1964	---	9.32 B ON APR 10	0B ON MAR 1	5 390	1964
1965	---	10.4 ON MAY 6	0B ON MAR 1	6 370	1965
1966	---	8.12 B ON MAR 31	0B ON MAR 1	7 000	1966
1967	---	12.4 ON APR 21	0B ON MAR 1	8 010	1967
1968	---	6.09 ON AUG 24	0B ON MAR 1	3 640	1968
1969	---	18.2 ON APR 15	0B ON MAR 1	11 800	1969
1970	---	18.3 ON JUN 12	0B ON MAR 1	25 800	1970
1971	---	72.5 B ON APR 11 *	0B ON MAR 1	28 700	1971
1972	---	7.99 B ON MAR 21	0B ON MAR 1	17 300	1972
1973	---	0.161 ON MAR 23	0B ON MAR 1	192	1973
1974	---	88.8 ON APR 15	0B ON MAR 1	34 200	1974
1975	---	11.4 ON APR 15	0B ON MAR 1	7 890	1975
1976	---	53.0 B ON APR 5	0B ON MAR 1	20 200	1976
1977	---	0.888 ON MAY 26	0B ON MAR 1	314	1977
1978	---	11.9 B ON APR 7	0B ON MAR 1	6 900	1978
1979	---	38.8 B ON APR 22	0B ON MAR 1	22 100	1979
1980	---	0.9738 ON APR 7	0B ON MAR 1	872	1980
1981	---	2.37 B ON MAR 14	0 ON JUN 29	1 770	1981
1982	---	56.4 ON JUN 6	0B ON MAR 1	30 500	1982
1983	6.188 AT 11:48 CST ON APR 2 *	3.13 B ON APR 2	0B ON MAR 1	4 180	1983
1984	1.03 AT 08:20 CST ON MAR 30	0.8678 ON MAR 28	0B ON MAR 1	853	1984
				10 900R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

CYPRESS CREEK NEAR SARLES - STATION NO. 02306031

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	---	---	0	0	0	0	0	0	0	---	1961
1962	0	0	0	1.21	0.031	0.043	0.428	0.003	0	0	0	0	0.143	1962
1963	0	0	0.030	0.033	0.001	1.33	0.725	0.487	0.001	0	0	0	0.215	1963
1964	0	0	0	0.873	0.008	0.048	0.002	0	0	0	0	0	0.080	1964
1965	0	0	0	0.540	0.083	0.025	0.851	0.108	0.018	0.008	0	0	0.136	1965
1966	0	0	0.883	0.345	0.240	0.001	0	0	0	0	0	0	0.121	1966
1967	0	0	0.387	1.28	0.222	0	0	0	0	0	0	0	0.185	1967
1968	0	0	0.103	0.014	0	0	0	0.225	0.337	0.011	0.001	0	0.057	1968
1969	0	0	0	4.32	0.018	0.002	0.005	0	0	0	0	0	0.358	1969
1970	0	0	0	2.38	0.336	3.32	0.018	0	0	0	0	0	0.488	1970
1971	0	0	0	3.38	0.013	0	0.025	0	0	0	0	0	0.282	1971
1972	0	0	1.17	0.458	0.011	0	0	0	0	0	0	0	0.138	1972
1973	0	0	0.072	0.001	0	0	0	0	0	0	0	0	0.008	1973
1974	0	0	0	4.83	1.21	0.025	0	0	0	0	0	0	0.502	1974
1975	0	0	0	0.887	0.113	0.298	0.045	0	0	0	0	0	0.117	1975
1976	0	0	0	2.48	0.005	0	0	0.001	0	0	0	0	0.206	1976
1977	0	0	0	0.002	0.238	0.005	0	0	0	0	0	0	0.021	1977
1978	0	0	0	1.30	0.134	0.010	0.010	0	0	0	0	0	0.120	1978
1979	0	0	0	3.01	0.337	0.012	0	0	0	0	0	0	0.277	1979
1980	0	0	0	0.241	0.001	0.005	0.004	0.001	0	0	0	0	0.021	1980
1981	0	0.133	0.133	0.018	0.014	0	0	0	0	0	0	0	0.024	1981
1982	0	0	0.141	1.19	0.020	1.53	0.003	0.001	0	0.084	0.005	0.010	0.244	1982
1983	0	0	0.356	1.11	0.019	0.001	0.008	0	0	0	0	0	0.124	1983
1984	0	0	0.112	0.032	0.022	0.001	0	0	0	0	0	0	0.014	1984
MEAN	0	0.006	0.145	1.30	0.133	0.277	0.089	0.034	0.015	0.003	0	0	0.187	MEAN

LOCATION - LAT 48 56 35 N
LONG 98 57 05 W
DRAINAGE AREA, 184 km^2
NATURAL FLOW
INTERNATIONAL GAUGING STATION

REMARKS - PUBLISHED AS "LONG RIVER" PRIOR TO 1978

CYPRESS CREEK NEAR SARLES - STATION NO. 05ODO31

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	---		---	1981
1982	11.1 AT 06:30 CST ON JUL 8	7.83 ON JUL 8	0 ON MAY 15 *	---	1981
1983	18.2 AT 21:00 CST ON JUN 2	11.4 ON JUN 4	0 ON JAN 1	4 500	1982
1984	5.35 B ON APR 10	2.63 B ON APR 10	0 ON JAN 1	8 770	1983
			0 ON JAN 1	1 890	1984
1985	10.2 AT 19:00 CST ON JUL 22	6.77 ON JUL 23	0 ON JAN 1	4 280	1985
1986	19.0 B AT 16:30 CST ON MAR 17	7.08 B ON MAR 17	0B ON JAN 1	3 820	1986
1987	8.78 B AT 17:40 CST ON APR 21	7.38 B ON APR 21	0B ON JAN 1	4 890	1987
1988	2.78 AT 01:00 CST ON AUG 25	2.18 ON AUG 25	0 ON JAN 1	1 820	1988
1989	32.0 B AT 07:00 CST ON APR 12	31.1 B ON APR 12	0B ON JAN 1	11 300	1989
1970	48.3 AT 06:30 CST ON JUN 11	44.2 ON JUN 11 *	0 ON JAN 1	15 800	1970
1971	54.4 AT 00:00 CST ON APR 11	33.1 ON APR 11	0 ON JAN 1	8 880	1971
1972	8.84 B AT 13:00 CST ON MAR 19	8.26 B ON MAR 19	0B ON JAN 1	4 380	1972
1973	---	0.880 ON MAR 13	0 ON JAN 1	198	1973
1974	35.7 AT 22:00 CST ON APR 17	29.2 ON APR 18	0 ON JAN 1	15 800	1974
1975	11.0 AT 12:00 CST ON APR 13	5.86 ON APR 13	0 ON JAN 1	3 710	1975
1976	18.4 B AT 00:30 CST ON APR 4	17.6 B ON APR 6	0B ON JAN 1	8 480	1976
1977	1.42 AT 19:00 CST ON MAY 20	1.27 ON MAY 21	0B ON JAN 1	867	1977
1978	9.03 AT 08:00 CST ON APR 7	8.72 ON APR 7	0B ON JAN 1	3 770	1978
1979	56.8 B ON APR 21 *	22.7 B ON APR 21	0B ON JAN 1	8 730	1979
1980	2.41 AT 11:00 CST ON APR 5	1.70 ON APR 5	0B ON JAN 1	858	1980
1981	0.8788 AT 04:30 CST ON FEB 24	0.6808 ON FEB 27	0B ON JAN 1	788	1981
1982	---	21.7 ON JUN 6	0B ON JAN 1	7 700	1982
1983	4.18 B AT 20:45 CST ON APR 2	3.40 B ON APR 3	0B ON JAN 1	3 800	1983
1984	1.08 AT 07:30 CST ON MAR 28	0.785 ON MAR 28	0 ON JAN 1	443	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 270	MEAN

CYPRESS RIVER AT CYPRESS RIVER - STATION NO. 05MH002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	0.585	0.187	0.340	0.078	0.426	0.130	0.038	---	---	---	1957
1958	---	---	0.514	0.801	0.208	0.038	0.077	0.018	0.013	0.018	---	---	0.210	1958
1959	---	---	0.540	3.34	0.510	0.138	0.036	0.032	0.038	0.624	---	---	0.638	1959
1960	---	---	0.073	8.98	0.864	0.132	0.088	0	0	0	---	---	0.859	1960
MEAN	---	---	0.376	3.03	0.367	0.182	0.085	0.119	0.045	0.145	---	---	0.802	MEAN

LOCATION - LAT 49 33 00 N DRAINAGE AREA, 388 km^2
LONG 99 04 30 W NATURAL FLOW

CYPRESS RIVER AT CYPRESS RIVER - STATION NO. 05MH002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	3.088 ON MAR 30	0B ON MAR 1 *	4 450	1958
1959	---	14.4 B ON APR 5	0B ON MAR 1	13 500	1959
1960	---	17.7 ON APR 17 *	0B ON MAR 1	20 300	1960
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		12 600	MEAN

CYPRESS RIVER NEAR BRUXELLES - STATION NO. 05MH005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	4.02	0.158	0.071	0.042	0.013	0.318	0.124	---	---	0.583	1965
1966	---	---	0.037	4.27	1.42	0.078	0.531	0.003	0	0	---	---	0.686	1966
1967	---	---	0.008	4.84	0.714	0.027	0.027	0	0	0	---	---	0.702	1967
1968	---	---	0.848	0.586	0.284	0.067	0.114	1.45	1.04	0.089	---	---	0.581	1968
1969	---	---	0	10.1	0.681	0.072	2.26	0.251	0.012	0.041	---	---	1.66	1969
1970	---	---	0	8.73	5.25	0.264	0.033	0	0	0	---	---	1.80	1970
1971	---	---	0	4.80	0.333	0.223	0.487	0.020	0.001	0.063	---	---	0.740	1971
1972	---	---	1.84	2.81	0.422	0.015	0	0.014	0	0	---	---	0.668	1972
1973	---	---	0.188	0.384	0.082	0.012	0.012	0.037	0.020	0.035	---	---	0.208	1973
1974	---	---	0	12.2	2.87	0.320	0.008	0	0	0	---	---	1.81	1974
1975	---	---	0	1.24	0.858	0.086	0.115	0	0	0.008	---	---	0.288	1975
1976	---	---	0.004	5.87	0.098	0.008	0	0	0	0	---	---	0.732	1976
1977	---	---	0	0.022	0.828	0.086	0	0	0.207	0.081	---	---	0.128	1977
1978	---	---	0.011	4.10	0.428	0.110	0.648	0.030	0	0	---	---	0.858	1978
1979	---	---	0	10.8	3.00	0.233	0.044	0	0	0	---	---	1.74	1979
1980	---	---	0	1.37	0.038	0	0	0.010	0.017	0.028	---	---	0.178	1980
1981	---	---	0.110	0.048	0.038	0.102	0.132	0.088	0.187	0.078	---	---	0.084	1981
1982	---	---	0.088	0.882	0.128	0.088	0.008	0	0	0.018	---	---	0.144	1982
1983	---	---	0.182	3.12	0.117	0.121	0.038	0	0	0	---	---	0.441	1983
1984	---	---	0.238	0.208	0.228	0.018	0	0	0	0.002	---	---	0.086	1984
MEAN	---	---	0.221	4.05	0.803	0.086	0.268	0.084	0.080	0.038	---	---	0.718	MEAN

LOCATION - LAT 49 26 48 N DRAINAGE AREA, 264 km^2
LONG 98 54 26 W NATURAL FLOW

CYPRESS RIVER NEAR BRUNELLES - STATION NO. 05MH005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	25.7 ON APR 13	0 B ON MAR 1 *	12 300	1965
1966	---	35.7 ON APR 1	0 B ON MAR 1	19 000	1966
1967	---	19.0 ON APR 21	0 B ON MAR 1	14 800	1967
1968	---	10.8 ON AUG 27	0 B ON MAR 1	11 900	1968
1969	---	72.5 ON APR 12	0 B ON MAR 1	35 800	1969
1970	---	43.0 ON APR 26	0 B ON MAR 1	40 100	1970
1971	---	28.2 B ON APR 10	0 B ON MAR 1	15 700	1971
1972	---	8.95 B ON MAR 20	0 B ON MAR 1	13 700	1972
1973	---	11.1 ON JUL 5	0 B ON MAR 1	4 420	1973
1974	---	73.9 ON APR 19 *	0 B ON MAR 1	40 500	1974
1975	4.90 AT 18:09 CST ON MAY 25	3.96 ON APR 16	0 B ON MAR 1	6 050	1975
1976	30.6 B AT 12:23 CST ON APR 8 *	29.7 B ON APR 7	0 ON JUN 2	15 500	1976
1977	4.45 AT 04:27 CST ON MAY 21	3.20 ON MAY 21	0 B ON MAR 1	2 650	1977
1978	---	17.6 B ON APR 8	0 B ON MAR 1	13 900	1978
1979	---	84.2 B ON APR 21	0 B ON MAR 1	38 800	1979
1980	8.72 AT 20:11 CST ON APR 7	7.85 ON APR 8	0 B ON MAR 1	3 600	1980
1981	1.05 AT 23:12 CST ON SEP 7	0.936 ON SEP 7	0.001 ON SEP 3	1 950	1981
1982	2.588 AT 20:00 CST ON APR 15	2.25 B ON APR 15	0 B ON MAR 1	3 040	1982
1983	9.418 AT 13:00 CST ON APR 6	7.81 B ON APR 9	0 B ON MAR 1	9 350	1983
1984	---	2.00 B ON MAR 24	0 B ON MAR 1	1 820	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		15 200	MEAN

CYPRESS RIVER NEAR CYPRESS RIVER - STATION NO. 05MH004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	2.84	2.88	0.708	0.030	0	0	0	0	---	---	0.802	1961
1962	---	---	0	5.94	0.865	1.22	0.116	3.01	0.585	0.038	---	---	1.43	1962
1963	---	---	1.41	1.31	0.217	0.504	0.053	0.022	0.001	0.026	---	---	0.454	1963
1964	---	---	0	2.38	0.499	0.199	0.051	0.008	0.008	0.015	---	---	0.387	1964
1975	---	---	0.001	2.18	1.53	0.242	0.133	0.010	0.023	0.019	---	---	0.513	1975
1976	---	---	0.007	11.8	0.437	0.123	0.028	0.012	0	0	---	---	1.50	1976
1977	---	---	0.026	0.117	0.861	0.126	0.115	0.076	0.586	0.186	---	---	0.298	1977
1978	---	---	0.255	5.86	0.848	0.206	1.18	0.107	0.012	0.013	---	---	1.01	1978
1979	---	---	0	13.6	4.89	0.557	0.104	0.008	0.008	0.015	---	---	2.35	1979
1980	---	---	0.002	1.85	0.108	0.008	0.004	0.058	0.008	0.024	---	---	0.221	1980
1981	---	---	0.308	0.136	0.087	0.082	0.181	0.117	0.185	0.100	---	---	0.149	1981
1982	---	---	0.174	1.48	0.283	0.181	0.272	0.010	0.001	0.033	---	---	0.301	1982
1983	---	---	0.818	5.87	0.432	0.150	0.060	0	0	0	---	---	0.818	1983
1984	---	---	0.307	0.473	0.358	0.077	0.003	0.001	0.001	0.008	---	---	0.153	1984
MEAN	---	---	0.448	3.85	0.828	0.270	0.187	0.248	0.122	0.034	---	---	0.748	MEAN

LOCATION - LAT 49 35 31 N DRAINAGE AREA, 572 km^2
LONG 99 02 00 W NATURAL FLOW

CYPRESS RIVER NEAR CYPRESS RIVER - STATION NO. 05MH004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	22.1 B ON MAR 27	0 B ON MAR 1 *	17 000	1961
1962	---	28.8 ON APR 21	0 B ON MAR 1	30 300	1962
1963	---	5.048 ON MAR 27	0 B ON MAR 1	9 600	1963
1964	---	4.288 ON APR 13	0 B ON MAR 1	8 190	1964
1975	---	4.98 ON APR 20	0.0018 ON MAR 1	10 900	1975
1976	---	58.1 ON APR 8	0 ON AUG 4	31 700	1976
1977	---	4.19 ON MAY 22	0.0018 ON MAR 1	8 270	1977
1978	---	18.1 ON APR 8	0 B ON MAR 1	21 400	1978
1979	---	84.7 B ON APR 22 *	0 B ON MAR 1	49 800	1979
1980	---	5.858 ON APR 9	0 ON JUN 14	6 880	1980
1981	2.21 AT 00:45 CST ON AUG 24	1.13 ON AUG 24	0.001 ON AUG 22	3 180	1981
1982	5.23 AT 04:56 CST ON JUL 17	3.38 ON JUL 17	0 B ON MAR 1	8 280	1982
1983	18.4 B AT 14:15 CST ON MAR 31 *	18.0 B ON MAR 31	0 B ON MAR 1	19 400	1983
1984	2.278 AT 23:36 CST ON APR 1	2.248 ON MAR 25	0 B ON MAR 1	3 230	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		15 800	MEAN

DAUPHIN RIVER NEAR ARAMA BAY - STATION NO. 05LM005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	4.09	1.46	2.11	30.3	28.6	26.7	116	112	52.5	58.3	70.0	66.8	47.7	1977
1978	71.0	74.2	84.9	128	108	68.2	64.4	38.4	30.2	26.1	22.2	12.3	61.7	1978
1979	12.7	18.4	22.9	72.1	268	313	312	272	200	151	135	84.0	155	1979
1980	82.0	112	128	144	107	53.2	30.8	27.8	48.6	83.2	82.4	43.6	74.8	1980
1981	38.7	38.2	44.6	84.3	40.5	28.2	18.8	15.0	15.5	19.5	22.0	18.4	29.0	1981
1982	5.51	0.859	3.08	38.8	58.7	36.2	28.2	15.0	12.3	14.2	16.2	7.71	19.2	1982
1983	8.80	4.44	8.73	19.8	61.8	89.8	121	128	88.8	88.1	80.4	19.7	58.0	1983
1984	18.4	23.0	27.9	74.8	84.5	82.0	82.8	112	70.8	51.8	40.2	32.5	58.2	1984
MEAN	28.8	34.8	41.4	70.2	89.5	84.8	97.1	89.8	85.5	88.9	82.3	38.8	82.3	MEAN

LOCATION - LAT 52 00 00 N DRAINAGE AREA, 81 800 km^2
LONG 98 10 20 W REGULATED SINCE 1976

DAUPHIN RIVER NEAR ANAMA BAY - STATION NO. 05LM005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	153 AT 04:07 CST ON AUG 4	151 ON AUG 4	1.02 B ON MAR 8	1 500 000	1977
1978	186 AT 03:00 CST ON APR 28 *	148 ON APR 25	10.0 B ON DEC 11	1 940 000	1978
1979	---	320 E ON JUN 12 *	11.3 B ON JAN 16	4 880 000	1979
1980	---	152 B ON APR 6	18.0 E ON AUG 18	2 370 000	1980
1981	---	67.3E ON APR 10	8.67 E ON SEP 22	815 000	1981
1982	88.1 AT 15:12 CST ON APR 24	84.2 ON APR 28	0.3208 ON FEB 14 *	605 000	1982
1983	148 AT 12:50 CST ON JUN 29	137 ON JUN 19	3.83 B ON FEB 20	1 780 000	1983
1984	125 AT 08:15 CST ON AUG 12	123 ON AUG 12	18.6 B ON JAN 25	1 740 000	1984
				1 980 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

DEAD LAKE DRAIN NEAR GLADSTONE - STATION NO. 05LL023

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	15.6	0.487	0	0	0	0	0	---	---	1.97	1974
1975	---	---	0	0.421	1.04	0.004	0	0	0.003	0.001	---	---	0.184	1975
1976	---	---	0	10.0	0.005	0	0	0	0	0	---	---	1.23	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.114	0	0	0	0	0	0	---	---	0.014	1978
1979	---	---	0	20.8	1.88	0.013	0	0	0	0	---	---	2.78	1979
1980	---	---	0	0.002	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.370	0	0	0	0	0	0	---	---	0.048	1982
1983	---	---	0	5.72	0.015	0	0	0	0	0	---	---	0.825	1983
1984	---	---	0.001	0.001	0.130	0	0	0	0	0	---	---	0.017	1984
MEAN	---	---	0	4.88	0.325	0.002	0	0	0	0	---	---	0.840	MEAN

LOCATION - LAT 50 10 59 N
LONG 98 58 58 W
NATURAL FLOW

DEAD LAKE DRAIN NEAR GLADSTONE - STATION NO. 05LL023

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	138 ON APR 18	0B ON MAR 1 *	41 800	1974
1975	---	12.8 ON MAY 1	0B ON MAR 1	3 880	1975
1976	---	55.2 B ON APR 7	0B ON MAR 1	25 000	1976
1977	---	0 ON MAR 1	0 ON MAR 1	0	1977
1978	---	1.25 B ON APR 11	0B ON MAR 1	298	1978
1979	---	181 B ON APR 23 *	0B ON MAR 1	56 400	1979
1980	---	0.0105 ON APR 7	0B ON MAR 1	0.13	1980
1981	---	0 B ON MAR 1	0B ON MAR 1	0	1981
1982	---	4.89 B ON APR 16	0B ON MAR 1	935	1982
1983	80.5 AT 23:48 CST ON APR 22 *	52.3 ON APR 23	0B ON MAR 1	17 400	1983
1984	0.263 AT 02:31 CST ON MAY 13	0.255 ON MAY 13	0B ON MAR 1	383	1984
				13 800	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

DEADHORSE CREEK AT MORDEN - STATION NO. 05DC015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	1.40	1.83	1.25	0.041	0.055	0.005	0.003	0.003	---	---	0.572	1966
1967	---	---	0.334	1.58	0.482	0.080	0	0.001	0	0	---	---	0.353	1967
1968	---	---	0.215	0.083	0.085	0	0.001	1.14	0.373	0.029	---	---	0.238	1968
1969	---	---	0	4.06	0.074	0.949	0.437	0.007	0	0	---	---	0.678	1969
1970	---	---	0	5.40	0.858	0.242	0.200	0.033	0.009	0.005	---	---	0.831	1970
1971	---	---	0	4.45	0.080	0.133	0.014	0.011	0.007	0.020	---	---	0.575	1971
1972	---	---	0.004	0.841	0.317	0.207	0.015	0.008	0.052	0	---	---	0.180	1972
1973	---	---	0	4.27	1.12	0.214	0.110	0	0	0	---	---	0.705	1973
1980	---	---	0	0.131	0	0	0	0	0.053	0.006	---	---	0.027	1980
1981	---	0.001	0.003	0.004	0.112	0.020	0	0.108	0.001	0.017	---	---	0.034	1981
1982	---	---	0.041	0.333	0.035	0.188	0.044	0.001	0.078	0.035	---	---	0.080	1982
1983	---	---	0.110	1.10	0.034	0.005	0.001	0	0	0	---	---	0.153	1983
1984	---	---	0.003	0.004	0.005	0.004	0	0	0	0.029	---	---	0.005	1984
MEAN	---	0.001	0.182	1.88	0.340	0.157	0.087	0.101	0.047	0.010	---	---	0.342	MEAN

LOCATION - LAT 49 11 47 N
LONG 98 08 38 W
DRAINAGE AREA 138 km^2
REGULATED

DEADHORSE CREEK AT MORDEN - STATION NO. 05DC015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1985	---	14.2 B ON MAR 31	0B ON MAR 1 *	12 100	1985
1987	---	28.9 ON APR 20	0B ON MAR 1	7 480	1987
1988	---	14.0 ON AUG 25	0B ON MAR 1	5 000	1988
1989	---	41.3 B ON APR 9	0B ON MAR 1	14 300	1989
1970	---	41.9 ON APR 26 *	0B ON MAR 1	17 600	1970
1971	---	39.6 ON APR 11	0B ON MAR 1	12 100	1971
1978	---	3.81 ON APR 10	0B ON MAR 1	4 030	1978
1979	---	33.5 B ON APR 19	0B ON MAR 1	15 000	1979
1980	---	0.6928 ON APR 7	0B ON MAR 1	570	1980
1981	0.880 AT 18:48 CST ON MAY 26	0.798 ON MAY 25	0B ON MAR 1	711	1981
1982	1.42 AT 00:58 CST ON SEP 28	1.16 ON SEP 28	0B ON MAR 1	1 000	1982
1983	8.50 AT 22:24 CST ON APR 6 *	8.03 ON APR 6	0B ON MAR 1	3 240	1983
1984	0.436 AT 23:00 CST ON OCT 16	0.409 ON OCT 16	0B ON MAR 1	120	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 240	MEAN

DEADHORSE CREEK NEAR MORDEN - STATION NO. 05DC023

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	0.828	1.10	0.202	0.007	0.018	0.001	0	0.001	---	---	0.268	1972
1973	---	---	0.010	0.008	0.007	0.003	0.001	0	0	0.001	---	---	0.004	1973
1974	---	---	0	4.77	3.14	0.241	0.001	0	0	0	---	---	1.01	1974
1975	---	---	0	0.459	0.343	0.575	0.068	0.023	0.024	0.085	---	---	0.193	1975
1976	---	---	0.008	2.02	0.034	0.017	0.002	0	0	0	---	---	0.258	1976
MEAN	---	---	0.169	1.87	0.745	0.155	0.018	0.005	0.005	0.013	---	---	0.346	MEAN

LOCATION - LAT 49 13 00 N, LONG 98 05 30 W. DRAINAGE AREA, 143 km^2. REGULATED

DEADHORSE CREEK NEAR MORDEN - STATION NO. 05DC023

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	5.18 B ON MAR 19	0B ON MAR 1 *	5 870	1972
1973	---	0.0578 ON MAR 13	0B ON MAR 1	74.2	1973
1974	---	37.4 ON MAY 21 *	0B ON MAR 1	21 400	1974
1975	1.94 AT 03:30 CST ON JUN 23	1.87 ON APR 28	0B ON MAR 1	4 080	1975
1976	22.5 B AT 08:00 CST ON APR 5 *	16.5 B ON APR 5	0B ON MAR 1	5 410	1976
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 330	MEAN

DEER RIVER NORTH OF BELCHER - STATION NO. 05FD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	0.800	0.582	0.508	0.480	22.4	19.6	16.7	39.4	38.0	9.04	1.97	1.75	12.7	1978
1979	1.46	1.07	0.808	0.712	37.4	58.9	22.1	11.0	13.2	18.6	7.04	2.53	13.8	1979
1980	0.883	0.605	0.508	14.5	---	---	19.8	---	25.5	18.5	5.05	2.18	---	1980
1981	1.23	0.851	0.671	0.619	58.3	29.8	19.5	12.2	10.8	28.3	9.67R	1.97 R	14.4R	1981
1982	0.787	0.458	0.187	0.018	---	84.3	20.7	5.53	7.87	12.4	5.32	2.80	---	1982
1983	1.71	1.31	1.07	0.959	3.23	184	18.2	22.2	78.0	30.1	10.3	4.32	27.9	1983
1984	2.78	1.37	0.780	18.0	79.5	48.8	8.46	2.66	2.88	4.84	1.98	0.858	14.3	1984
MEAN	1.36	0.888	0.644	5.03	37.6	63.9	17.9	15.5	26.3	17.6	5.99R	2.33 R	18.6	MEAN

LOCATION - LAT 55 00 54 N, LONG 94 11 44 W. DRAINAGE AREA, 1 660 km^2. NATURAL FLOW

R - REVISED SINCE JAN 1980

DEER RIVER NORTH OF BELCHER - STATION NO. 05FD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	81.6 AT 12:48 CST ON AUG 22	81.0 ON AUG 21	0.4538 ON APR 8	388 000	1978
1979	---	130 B ON MAY 27	0.5778 ON APR 12	437 000	1979
1980	---	---	0.4678 ON APR 9	---	1980
1981	---	205 B ON MAY 23	0.3818 ON MAY 11	488 000R	1981
1982	---	---	0.0088 ON APR 11 *	---	1982
1983	---	324 B ON JUN 2 *	0.8638 ON MAY 20	878 000	1983
1984	208 AT 01:00 CST ON MAY 22 *	208 ON MAY 21	0.5748 ON APR 8	451 000	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980		524 000R	MEAN

DEVILS CREEK NEAR LISAU - STATION NO. 05OJ018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	0.078	7.21	0.988	0.332	0.189	0.043	0.148	0.220	---	---	1.08	1971
1972	---	---	0.016	3.48	0.177	0.080	0.042	0.048	0.028	0.084	---	---	0.485	1972
1973	---	---	1.23	0.268	0.074	3.42	0.273	0.088	0.310	0.884	---	---	0.772	1973
1974	---	---	0.023	10.1	5.55	0.437	0.078	0.082	0.088	0.081	---	---	2.03	1974
1975	---	---	0.018	2.83	0.383	2.47	0.818	0.103	0.052	0.078	---	---	0.787	1975
1976	---	---	0	4.02	0.156	1.07	0.107	0.042	0.044	0.030	---	---	0.672	1976
1977	---	---	0.088	0.411	0.073	0.087	0.108	0.083	1.37	0.324	---	---	0.314	1977
1978	---	---	0	5.58	0.880	0.384	0.704	0.057	0.053	0.084	---	---	1.07	1978
1979	---	---	0	7.82	2.14	1.28	0.100	0.058	0.128	0.088	---	---	1.43	1979
1980	---	---	0	2.90	0.103	0.035	0.025	0.024	0.033	0.032	---	---	0.387	1980
1981	---	---	0.288	0.079	0.088	0.048	0.031	0.020	0.031	0.088	---	---	0.084	1981
1982	---	---	0.204	1.78	0.057	0.114	0.107	0.024	0.027	0.118	---	---	0.301	1982
1983	---	---	0.388	3.47	0.130	0.178	0.188	0.030	0.043	0.028	---	---	0.847	1983
1984	---	---	0.230	0.478	0.083	0.473	0.108	0.031	0.024	0.187	---	---	0.183	1984
MEAN	---	---	0.183	3.88	0.742	0.743	0.183	0.081	0.188	0.137	---	---	0.724	MEAN

LOCATION - LAT 50 11 40 N DRAINAGE AREA, 249 km²
LONG 98 42 50 W NATURAL FLOW

REMARKS - PUBLISHED AS "DEVIL CREEK" PRIOR TO 1979

DEVILS CREEK NEAR LISAU - STATION NO. 05OJ018

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	32.8 AT 21:28 CST ON APR 10 *	28.2 ON APR 10	0.012 ON AUG 11	22 800	1971
1972	---	15.5 ON APR 15	0 B ON MAR 1 *	10 300	1972
1973	---	34.6 ON JUN 20	0 B ON MAR 1	16 300	1973
1974	---	58.3 ON APR 21 *	0.0178 ON MAR 1	42 800	1974
1975	19.8 AT 02:38 CST ON JUN 23	17.0 ON JUN 23	0.0188 ON MAR 1	16 200	1975
1976	---	17.0 B ON APR 5	0 B ON MAR 1	14 200	1976
1977	---	10.5 ON SEP 5	0 B ON MAR 1	6 860	1977
1978	17.8 AT 22:17 CST ON APR 16	15.7 ON APR 17	0 B ON MAR 1	22 700	1978
1979	---	47.8 B ON APR 19	0 B ON MAR 1	30 200	1979
1980	---	10.7 B ON APR 10	0 B ON MAR 1	8 180	1980
1981	0.449 AT 13:00 CST ON MAR 13	0.4488 ON MAR 13	0.005 ON AUG 28	1 760	1981
1982	8.88 B AT 22:22 CST ON APR 14	7.08 B ON APR 14	0 B ON MAR 1	6 360	1982
1983	18.0 B AT 19:23 CST ON APR 5	13.2 B ON APR 5	0 B ON MAR 1	11 600	1983
1984	2.17 AT 23:26 CST ON JUN 21	1.64 B ON MAR 28	0 B ON MAR 1	4 080	1984
				15 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

DEVILS CREEK NEAR SEMPLE - STATION NO. 05OJ012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1987	---	---	0	5.11	0.548	0.008	0.001	0.005	0.010	0.024	---	---	0.700	1987
1988	---	---	0.583	0.847	0.444	0.301	0.338	2.32	0.847	0.288	---	---	0.720	1988
1989	---	---	0	5.43	0.744	0.178	0.025	0.006	0.087	0.182	---	---	0.812	1989
1990	---	---	0	3.87	1.18	0.784	0.183	0.138	0.722	0.288	---	---	0.888	1990
MEAN	---	---	0.141	3.88	0.728	0.317	0.139	0.617	0.334	0.195	---	---	0.782	MEAN

LOCATION - LAT 50 13 20 N DRAINAGE AREA, 380 km²
LONG 98 43 30 W NATURAL FLOW

REMARKS - PUBLISHED AS "DEVIL CREEK" PRIOR TO 1979

DEVILS CREEK NEAR SEMPLE - STATION NO. 05OJ012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1987	---	15.2 ON APR 15	08 ON MAR 1 *	14 800	1987
1988	---	15.3 ON AUG 28	08 ON MAR 1	15 300	1988
1989	---	23.78 ON APR 10 *	08 ON MAR 1	17 200	1989
1990	---	12.18 ON APR 17	08 ON MAR 1	18 800	1990
				16 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

DOMAIN DRAIN NEAR DOMAIN - STATION NO. 05DC009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.139	0.017	0.066	0.027	0.021	0.003	0	0	---	---	0.034	1981
1982	---	---	0.081	0.384	0	0	0	0	0	0.005	---	---	0.068	1982
1983	---	---	0.210	1.78	0	0.001	0	0	0	0	---	---	0.246	1983
1984	---	---	0.024	0.180	0.017	0.030	0.010	0	0	0	---	---	0.030	1984
MEAN	---	---	0.114	0.586	0.021	0.015	0.006	0.001	0	0.001	---	---	0.082	MEAN

LOCATION - LAT 49 39 32 N
LONG 97 17 20 W
NATURAL FLOW

DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

DOMAIN DRAIN NEAR DOMAIN - STATION NO. 05DC009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	0.868 AT 12:00 CST ON MAY 23	0.434 ON MAY 24	00 ON MAR 1 *	729	1981
1982	3.82 AT 18:56 CST ON APR 14	2.67 ON APR 15	00 ON MAR 1	1 230	1982
1983	11.4 AT 01:05 CST ON APR 7 *	10.2 ON APR 8 *	00 ON MAR 1	5 200	1983
1984	---	0.7570 ON APR 2	00 ON MAR 1	525	1984
				1 950	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

DRAINAGE DITCH NEAR LISAU - STATION NO. 05DJ013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0	0.278	0.011	0	0	0	0	0	---	---	0.035	1967
1968	---	---	0	0.371	0.034	0.013	0.002	0	0	0	---	---	0.052	1968
1970	---	---	0	0.548	0.023	0.001	0	0	0	0	---	---	0.070	1970
1971	---	---	0	0.705	0.014	0.006	0.003	0	0	0	---	---	0.089	1971
1972	---	---	0	0.285	0.002	0	0	0	0	0	---	---	0.035	1972
1973	---	---	0.052	0.007	0	0.127	0	0	0	0	---	---	0.027	1973
1975	---	---	0	0.363	0.003	0.161	0.001	0	0	0	---	---	0.055	1975
1976	---	---	0	0.328	0.001	0.378	0.001	0	0	0	---	---	0.067	1976
1977	---	---	0	0.078	0.010	0.513	0.003	0	0.283	0.083	---	---	0.044	1977
MEAN	---	---	0.008	0.328	0.011	0.078	0.001	0	0.026	0	---	---	0.056	MEAN

LOCATION - LAT 50 13 50 N
LONG 98 43 30 W
DRAINAGE AREA, 13.5 km^2
NATURAL FLOW

DRAINAGE DITCH NEAR LISAU - STATION NO. 05DJ013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	1.08 ON APR 15	00 ON MAR 1 *	750	1967
1968	---	3.43 ON APR 10	0 ON MAR 1	1 090	1968
1970	---	2.638 ON APR 17	00 ON MAR 1	1 480	1970
1971	---	5.668 ON APR 10	00 ON MAR 1	1 900	1971
1972	---	3.37 ON APR 15	00 ON MAR 1	745	1972
1973	---	1.53 ON JUN 20	0 ON MAR 1	966	1973
1975	---	3.283 ON APR 15 *	00 ON MAR 1	1 370	1975
1976	---	2.695 ON APR 5	00 ON MAR 1	1 830	1976
1977	---	2.13 ON SEP 10	00 ON MAR 1	939	1977
				1 180	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

DRIFTING RIVER NEAR ASHVILLE - STATION NO. 05LJ017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	3.15	2.88	4.78	1.88	0.076	0.545	0.887	0.252	---	---	1954
1955	---	---	---	3.45	2.36	0.784	0.058	0	0.003	0.001	0.001	---	---	1955
1956	---	---	0.048	1.81	3.77	0.868	0.310	0.013	0.070	0.095	0.212	---	1.05	1956
1957	---	---	0.087	3.85	0.838	0.158	0.037	0	0	0	---	---	0.800	1957
1958	---	---	0.104	0.340	0.080	0.034	0.008	0	0	0	---	---	0.067	1958
1959	---	---	0.488	0.844	0.288	0.850	0.340	0	0	0.018	---	---	0.318	1959
1960	---	---	0	3.83	1.40	0.848	0.014	0	0	0	---	---	0.880	1960
1961	---	---	0.003	0.078	0.027	0	0	0	0	0	---	---	0.014	1961
1962	---	---	0	0.785	0.083	0.073	0.029	0.001	0	0	---	---	0.121	1962
1963	---	---	0.184	0.450	0.383	0.284	0.188	0.001	0	0	---	---	0.185	1963
1964	---	---	0	0.278	0.135	0.024	0	0	0	0	---	---	0.053	1964
1965	---	---	0	0.744	0.382	0.278	0.308	0.277	0.851	0.441	---	---	0.378	1965
1966	---	---	0.344	3.35	0.988	0.532	0.288	0.072	0.054	0.087	---	---	0.836	1966
1967	---	---	0.008	4.33	1.87	0.101	0.008	0	0	0	---	---	0.784	1967
1968	---	---	0.128	0.327	0.048	0.028	0	0	0	0	---	---	0.068	1968
1969	---	---	0	1.74	0.181	0.081	0.483	0.188	0.008	0.078	---	---	0.338	1969
1970	---	---	0.028	4.49	2.78	0.848	0.383	0.128	0	0.008	---	---	1.07	1970
1971	---	---	0.003	2.84	0.321	0.888	0.024	0	0	0	---	---	0.488	1971
1972	---	---	0.235	2.43	0.931	0.047	0	0	0	0	---	---	0.481	1972
1973	---	---	0.048	0.082	0.015	0.185	0.018	0.002	0.023	0.083	---	---	0.055	1973
1974	---	---	0	4.80	4.40	0.808	0	0	0	0	---	---	1.22	1974
1975	---	---	0	2.84	1.78	1.80	0.087	0	0.332	0.309	---	---	0.834	1975
1976	---	---	0.008	3.84	0.408	4.87	0.218	0	0	0	---	---	1.17	1976
1977	---	---	0	0.018	0.028	0.014	0.263	0.008	0.021	0.022	---	---	0.045	1977
MEAN	---	---	0.077	2.10	1.18	0.774	0.203	0.031	0.071	0.072	0.188	---	0.482	MEAN

LOCATION - LAT 51 18 10 N DRAINAGE AREA, 251 km²
LONG 100 22 00 W NATURAL FLOW

DRIFTING RIVER NEAR ASHVILLE - STATION NO. 05LJ017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1954	---	13.9 ON APR 17	0B ON APR 1 *	---	1954
1955	---	8.33 B ON APR 4	0 ON JUL 17	---	1955
1956	---	12.2 ON MAY 5	0 ON AUG 7	22 800	1956
1957	---	8.85 ON APR 25	0B ON MAR 1	12 700	1957
1958	---	1.63 ON APR 2	0B ON MAR 1	1 420	1958
1959	---	3.77 ON JUN 29	0B ON MAR 1	8 690	1959
1960	---	12.7 ON APR 13	0B ON MAR 1	14 800	1960
1961	---	0.1818 ON APR 14	0B ON MAR 1	303	1961
1962	---	8.08 B ON APR 20	0B ON MAR 1	2 550	1962
1963	---	1.83 ON APR 10	0B ON MAR 1	4 180	1963
1964	---	0.8188 ON APR 18	0B ON MAR 1	1 120	1964
1965	---	2.88 ON APR 13	0B ON MAR 1	8 030	1965
1966	---	24.1 ON APR 2	0 ON JUL 28	14 700	1966
1967	---	25.7 B ON APR 27 *	0 ON JUL 10	16 800	1967
1968	---	0.8718 ON MAR 26	0B ON MAR 1	1 390	1968
1969	---	11.8 B ON APR 13	0B ON MAR 1	7 170	1969
1970	---	20.7 ON APR 25	0 ON AUG 18	22 800	1970
1971	---	15.8 B ON APR 11	0 ON JUL 22	10 800	1971
1972	---	8.37 B ON APR 18	0B ON MAR 1	8 540	1972
1973	---	0.618 ON JUN 21	0B ON MAR 1	1 180	1973
1974	---	24.5 B ON APR 18	0B ON MAR 1	25 800	1974
1975	---	10.4 B ON APR 30	0B ON MAR 1	18 800	1975
1976	---	25.4 ON JUN 14	0 ON JUL 28	24 800	1976
1977	---	2.42 ON JUL 19	0B ON MAR 1	861	1977
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		10 400	MEAN

DUCK RIVER AT COWAN - STATION NO. 05LE004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	0.138	1.23	1.88	1.22	2.02	2.68	0.848	0.377	---	---	1.28	1968
1969	---	---	0.147	2.82	3.42	1.84	1.18	0.855	0.818	2.88	---	---	1.84	1969
1970	---	---	0.184	2.88	9.08	1.80	3.85	0.880	0.830	3.80	---	---	2.87	1970
1971	---	---	0.178	5.41	1.81	3.82	2.78	0.838	0.423	1.88	---	---	1.88	1971
1972	---	---	0.178	4.20	8.32	0.878	0.882	0.283	0.178	0.318	---	---	1.48	1972
1973	---	---	0.083	1.00	3.71	8.28	2.77	0.433	2.21	1.33	---	---	2.32	1973
1974	---	---	0.230	8.72	9.82	2.38	0.338	0.838	1.01	0.808	---	---	3.88	1974
1975	---	---	0.207	2.88	8.83	3.31	0.277	0.281	4.24	1.84	---	---	2.47	1975
1976	---	---	0.238	8.84	2.88	8.08	0.878	0.324	0.131	0.188	---	---	2.44	1976
1977	---	---	0.181	1.41	0.817	0.187	0.848	1.18	4.44	1.82	---	---	1.32	1977
1978	---	---	0.188	2.82	2.18	0.703	0.138	0.082	0.233	0.488	---	---	0.880	1978
1979	---	---	0.128	1.58	12.1	2.28	0.281	0.081	0.081	0.388	---	---	2.21	1979
1980	---	---	0.008	2.08	0.401	0.188	0.081	0.878	0.188	0.274	---	---	0.488	1980
1981	---	---	0.088	0.884	0.878	2.81	0.840	0.172	0.141	0.888	---	---	0.723	1981
1982	---	---	0.020	1.87	1.88	1.08	8.08	0.417	0.218	0.827	---	---	1.28	1982
1983	---	---	0.138	3.48	7.81	2.32	2.08	0.211	0.248	0.280	---	---	1.88	1983
1984	---	---	0.287	2.78	8.28	8.12	0.824	0.178	0.832	2.82	---	---	2.11	1984
MEAN	---	---	0.188	2.84	4.32	2.78	1.48	0.828	0.874	1.12	---	---	1.78	MEAN

LOCATION - LAT 52 01 80 N DRAINAGE AREA, 225 km²
LONG 100 30 00 W NATURAL FLOW

DUCK RIVER AT COWAN - STATION NO. 05LG004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	---	---	---	1968
1969	---	17.7 ON AUG 30	0.0888 ON MAR 1	27 000	1969
		14.8 ON OCT 4	0.108 ON AUG 27	32 700	
1970	---	---	---	---	1970
1971	---	23.8 E ON OCT 29	0.139 ON SEP 18	80 700	1971
1972	---	23.8 ON JUL 25	0.1788 ON MAR 1	41 800	1972
1973	---	18.9 ON APR 30	0.051 ON SEP 2	31 400	1973
1974	---	99.1 ON JUN 20	0.059 ON AUG 24	46 200	1974
		33.7 ON MAY 22	0.103 ON AUG 10	54 000	
1975	---	25.8 ON SEP 20	0.051 ON JUL 29	62 300	1975
1976	110 ON JUN 14	83.0 ON JUN 14 *	0.119 ON SEP 26	51 700	1976
1977	17.8 AT 08:41 CST ON SEP 28	15.8 ON SEP 28	0.052 ON JUN 28	27 800	1977
1978	11.4 AT 03:26 CST ON APR 28	10.6 ON APR 28	0.007 ON AUG 10	16 000	1978
1979	41.0 AT 07:30 CST ON MAY 26	35.9 ON MAY 26	0.019 ON SEP 1	46 700	1979
1980	6.51 AT 04:05 CST ON APR 22	6.23 ON APR 21	0.0058 ON MAR 1	9 720	1980
1981	16.1 AT 11:33 CST ON JUN 24	13.3 ON JUN 24	0 B ON MAR 1 *	15 300	1981
1982	110 AT 16:01 CST ON JUL 17 *	49.6 ON JUL 16	0 B ON MAR 1	28 800	1982
1983	27.7 B AT 12:16 CST ON APR 24	20.3 ON MAY 16	0.077 ON AUG 24	41 500	1983
1984	38.0 AT 17:52 CST ON JUN 23	28.2 ON JUN 23	0.0682E ON SEP 1	44 600	1984
				37 300	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

EAST FISHER RIVER NEAR HODGSON - STATION NO. 05SD004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	---	0.874	0.268	0.181	0.184	0.124	0.107	0.178	---	---	---	1981
1982	---	---	---	1.85	0.378	0.352	0.238	0.219	0.120	0.384	---	---	---	1982
1983	---	---	0.581	6.85	0.980	3.67	0.537	0.529	0.806	0.375	---	---	3.06	1983
1984	---	---	0.173	1.02	1.02	0.536	0.484	0.418	0.323	0.436	---	---	0.907	1984
1985	---	---	0.057	3.29	1.05	0.992	0.686	0.383	0.351	0.278	---	---	1.34	1985
1986	---	---	0.145	3.13	1.38	0.385	0.386	0.211	0.183	0.211	---	---	1.01	1986
1987	---	---	0.074	4.06	0.817	0.348	0.286	0.237	0.152	0.197	---	---	1.33	1987
1988	---	---	0.504	1.71	0.758	0.588	0.586	0.382	0.524	0.278	---	---	0.882	1988
1989	---	---	0.110	3.68	0.467	0.462	0.281	0.887	0.419	0.500	---	---	1.16	1989
1970	---	---	0.133	4.38	1.22	0.505	0.394	0.295	0.193	0.184	---	---	1.54	1970
1971	---	---	0.088	2.24	0.240	0.244	0.256	0.189	0.117	0.138	---	---	0.588	1971
1972	---	---	0.086	4.68	0.648	0.264	0.231	0.224	0.188	0.137	---	---	1.36	1972
1973	---	---	0.552	0.388	0.288	0.485	---	---	---	---	---	---	0.420	1973
1974	---	---	0.207	14.7	8.07	0.907	---	---	---	---	---	---	5.19	1974
1975	---	---	0.145	2.88	0.812	0.424	---	---	---	---	---	---	0.850	1975
1976	---	---	0.230	17.5	0.788	0.442	---	---	---	---	---	---	4.78	1976
1977	---	---	0.148	0.447	0.287	0.408	---	---	---	---	---	---	0.322	1977
1978	---	---	0.054	6.77	0.820	0.480	---	---	---	---	---	---	1.98	1978
1979	---	---	0.087	13.0	4.23	1.01	---	---	---	---	---	---	4.58	1979
1980	---	---	0.084	2.83	0.314	0.214	---	---	---	---	---	---	0.652	1980
1981	---	---	0.588	0.814	0.381	0.817	---	---	---	---	---	---	0.511	1981
1982	---	---	0.184	3.81	0.872	0.478	---	---	---	---	---	---	1.25	1982
1983	---	---	0.174	8.87	1.88	0.800	---	---	---	---	---	---	2.33	1983
1984	---	---	0.231	0.603	0.340	0.44	---	---	---	---	---	---	1.43	1984
MEAN	---	---	0.308	4.81	1.18	0.812	0.377	0.333	0.263	0.288	---	---	1.78	MEAN

LOCATION - LAT 51 13 00 N
LONG 97 32 00 W
DRAINAGE AREA, 384 km^2
NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

EAST FISHER RIVER NEAR HODGSON - STATION NO. 05SD004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	5.88 ON APR 21	---	---	1981
1982	---	13.0 B ON APR 21	---	---	1982
1983	---	38.8 ON APR 9	0 B ON MAR 1 *	32 300	1983
1984	---	9.128 ON APR 16	0.1478 ON MAR 2	9 580	1984
1985	---	17.1 ON APR 14	0.0408 ON MAR 1	14 100	1985
1986	---	12.1 B ON APR 4	0.1308 ON MAR 1	10 800	1986
1987	---	18.7 ON APR 16	0.0748 ON MAR 1	14 100	1987
1988	---	5.218 ON APR 9	0.1188 ON MAR 1	8 300	1988
1989	---	33.0 ON APR 12	0.1108 ON MAR 1	12 300	1989
1970	---	15.0 B ON APR 19	0.1338 ON MAR 1	18 200	1970
1971	---	11.6 ON APR 19	0.0888 ON MAR 1	7 250	1971
1972	---	26.9 ON APR 16	0.0488 ON MAR 1	14 500	1972
1973	---	1.788 ON MAR 25	0.0488 ON MAR 1	4 430	1973
1974	---	84.6 ON APR 20	0.2078 ON MAR 1	85 200	1974
1975	---	8.878 ON APR 19	0.1438 ON MAR 1	10 000	1975
1976	---	81.2 B ON APR 7	0.2128 ON MAR 25	80 100	1976
1977	---	2.10 ON MAY 30	0.071 ON MAY 13	3 400	1977
1978	---	27.6 ON APR 16	0 B ON MAR 1	20 700	1978
1979	---	70.6 ON APR 23 *	0.0838 ON MAR 1	47 900	1979
1980	---	5.018 ON APR 11	0.0818 ON MAR 30	8 880	1980
1981	3.20 AT 23:07 CST ON JUN 19	2.98 ON JUN 19	0 ON JUN 30	5 380	1981
1982	---	35.7 E ON APR 19	0.0808 ON MAR 25	13 100	1982
1983	38.2 B AT 08:15 CST ON APR 8 *	36.1 B ON APR 8	0.017 ON APR 16	24 800	1983
1984	---	33.8 ON JUN 23	0.0308 ON MAR 19	15 100	1984
				16 800	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

EASTERN TRIBUTARY TO EDWARDS CREEK - STATION NO. 05LJ032

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	---	---	0.230	0.024	0.032	0.015	0.015	0.024	0.018	0.014	---	1964
1965	0.012	0.011	0.014	0.124	0.513	0.210	0.088	0.072	0.387	0.093	0.053	0.033	0.148	1965
1966	0.015	0.014	0.023	0.338	0.784	0.239	0.048	0.040	0.024	0.029	0.033	0.024	0.132	1966
1967	0.024	0.021	0.022	0.058	0.588	0.084	0.027	0.028	0.015	0.022	0.024	0.014	0.078	1967
1968	0.013	0.012	0.027	0.123	0.344	0.185	0.132	0.088	0.054	0.044	0.031	0.025	0.081	1968
1969	0.022	0.017	0.008	0.414	0.352	0.574	0.227	0.037	0.075	0.084	0.058	0.038	0.150	1969
1970	0.028	0.025	0.034	0.089	0.520	0.315	0.188	0.044	0.139	0.233	0.108	0.038	0.158	1970
1971	0.012	0.008	0.022	0.807	0.140	0.684	0.124	0.048	0.028	0.134	0.074	0.051	0.180	1971
1972	0.045	0.029	0.035	0.478	0.433	0.048	0.024	0.018	0.015	0.028	0.084	0.029	0.103	1972
1973	0.037	0.041	0.040	0.081	0.081	0.280	0.033	0.029	0.415	0.314	0.211	0.088	0.131	1973
1974	0.024	0.023	0.027	0.782	1.34	0.105	0.042	0.027	0.029	0.031	0.031	0.031	0.209	1974
1975	0.013	0.008	0.011	0.120	0.473	0.238	0.042	0.084	1.44	0.214	0.100	0.058	0.233	1975
1976	0.051	0.042	0.036	0.788	0.124	0.343	0.081	0.035	0.018	0.024	0.023	0.022	0.130	1976
1977	0.019	0.023	0.037	0.076	0.073	0.034	0.382	0.058	0.415	0.101	0.063	0.036	0.111	1977
1978	0.022	0.021	0.024	0.372	0.118	0.084	0.086	0.028	0.075	0.122	0.032	0.018	0.082	1978
1979	0.023	0.018	0.024	0.229	1.03	0.153	0.037	0.028	0.030	0.038	0.033	0.029	0.140	1979
1980	0.027	0.023	0.018	0.103	0.027	0.018	0.028	0.102	0.084	0.070	0.031	0.014	0.048	1980
1981	0.014	0.021	0.267	0.316	0.278	0.348	0.041	0.037	0.033	0.048	0.028	0.008	0.120	1981
1982	0	0	0.003	0.222	0.262	0.088	0.027	0.031	0.023	0.337	0.152	0.030	0.101	1982
MEAN	0.022	0.020	0.037	0.293	0.406	0.212	0.088	0.045	0.178	0.105	0.061	0.030	0.128	MEAN

LOCATION - LAT 50 59 03 N
LONG 100 03 36 W
DRAINAGE AREA, 14.8 km²
NATURAL FLOW

EASTERN TRIBUTARY TO EDWARDS CREEK - STATION NO. 05LJ032

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1964	---	---	---	---	1964
1965	---	2.22 ON MAY 7	0.011B ON JAN 11	4 550	1965
1966	---	2.64 ON MAY 19	0.014B ON JAN 19	4 170	1966
1967	---	1.36 B ON MAY 15	0.008B ON DEC 28	2 480	1967
1968	---	0.954 ON MAY 8	0.008B ON JAN 1	2 560	1968
1969	---	4.89 E ON JUN 27	0.005B ON MAR 11	4 720	1969
1970	---	1.75 B ON MAY 8	0.023B ON DEC 28	4 830	1970
1971	---	5.86 E ON JUN 5	0.007B ON FEB 10	5 040	1971
1972	---	1.81 ON APR 28	0 ON SEP 2 *	3 270	1972
1973	---	5.61 ON SEP 4	0 ON JUL 21	4 140	1973
1974	---	4.13 ON APR 27	0.020B ON DEC 31	8 590	1974
1975	38.8 AT 05:16 CST ON SEP 19 *	28.8 ON SEP 19 *	0.008B ON FEB 4	7 370	1975
1976	---	2.88 ON APR 14	0.012 ON MAY 30	4 110	1976
1977	---	5.20 E ON JUL 11	0.014B ON JAN 7	3 800	1977
1978	---	3.09 A ON APR 25	0.015B ON DEC 7	2 570	1978
1979	---	3.76 A ON MAY 17	0.013B ON FEB 27	4 430	1979
1980	0.886 AT 11:02 CST ON AUG 4	0.529A ON SEP 4	0.014B ON DEC 8	1 480	1980
1981	4.95 AT 12:08 CST ON JUN 15	2.30 ON JUN 15	0 B ON DEC 15	3 780	1981
1982	---	1.88 ON OCT 28	0 B ON JAN 1	3 190	1982
				4 050	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

EDWARDS CREEK ABOVE DAUPHIN RESERVOIRS - STATION NO. 05LJ029

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	---	---	---	---	---	---	---	---	---	---	1962
1963	0.070	0.148	0.128	1.08	0.448	0.594	0.113	0.053	0.084	0.088	0.108	0.150	0.254	1963
1964	0.127	0.118	0.130	0.828	0.552	0.081	---	---	---	---	---	---	---	1964
MEAN	0.089	0.132	0.130	0.859	0.500	0.338	0.113	0.053	0.084	0.088	0.108	0.151	0.254	MEAN

LOCATION - LAT 51 01 21 N
LONG 100 04 54 W
DRAINAGE AREA, 51.5 km²
REGULATED

EDWARDS CREEK ABOVE DAUPHIN RESERVOIRS - STATION NO. 05LJ029

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1962	---	---	---	---	1962
1963	---	3.68B ON APR 8 *	0 ON JAN 15 *	8 020	1963
1964	---	---	---	---	1964
				8 020	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0.103	2.15	0.088	0.037	0.078	0.488	0.400	0.274	---	---	0.447	1980
1981	---	---	0.128	0.833	1.52	1.82	0.240	0.233	0.042	0.118	---	---	0.813	1981
1982	---	---	0.080	4.08	1.83	0.295	0.084	0.041	0.008	0.889	---	---	0.875	1982
1983	---	---	0	5.87	2.75	1.28	0.758	0.031	0.034	0.051	---	---	1.34	1983
1984	---	---	0.178	0.803	2.30	0.803	0.085	0	0.007	0.534	---	---	0.573	1984
MEAN	---	---	0.093	2.70	1.87	0.887	0.239	0.155	0.098	0.373	---	---	0.770	MEAN

LOCATION - LAT 51 08 30 N DRAINAGE AREA, 311 km²
LONG 99 55 20 W REGULATED

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1980	---	5.878 ON APR 5	0 ON MAY 22 *	8 450	1980
1981	12.5 AT 18:56 CST ON JUN 13 *	6.51 ON JUN 16	0 ON SEP 16	13 000	1981
1982	---	17.3 B ON APR 14	OB ON MAR 1	18 800	1982
1983	---	42.0 B ON APR 22 *	OB ON MAR 1	28 300	1983
1984	5.22 AT 15:15 CST ON JUN 23	5.50 ON MAY 12	OB ON MAR 1	12 100	1984
				18 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

EDWARDS CREEK NEAR DAUPHIN - STATION NO. 05LJ022

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	0.086	5.44	3.24	1.45	0.104	0.086	0.122	0.121	---	---	1.20	1957
1958	---	---	0.383	1.31	0.280	0.085	0.313	0.015	0.028	0.147	---	---	0.318	1958
1959	---	---	0.044	1.84	2.14	0.877	0.815	0.072	0.105	0.847	---	---	0.753	1959
1960	---	---	0.062	4.28	5.01	0.884	0.127	0.074	0.012	0.058	---	---	1.41	1960
1961	---	---	0.012	0.821	0.878	0.036	0.035	0	0	0.008	---	---	0.181	1961
1962	---	---	0.100	0.803	1.18	0.868	0.032	0.044	0.144	0.381	---	---	0.439	1962
1963	---	---	0.284	2.73 R	1.24 R	1.88 R	0.278	0.083	0.172	0.178	---	---	0.820R	1963
1964	---	---	0	2.48	1.20	0.088	0.077	0.012	0.022	0.039	---	---	0.485	1964
1965	---	---	0.003	1.08	2.08	0.850	0.280	0.133	1.88	0.417	---	---	0.827	1965
1966	---	---	0.178	1.97	2.84	0.712	0.208	0.170	0.015	0.088	---	---	0.781	1966
1967	---	---	0	0.881	3.37	0.218	0.030	0.021	0	0.040	---	---	0.585	1967
1968	---	---	0.218	0.894	0.782	0.430	1.08	0.339	0.116	0.123	---	---	0.471	1968
1969	---	---	0.006	1.43	0.806	3.21 R	1.42	0.111	0.180	0.188	---	---	0.887R	1969
1970	---	---	0.133	1.11	0.38	0.886	0.497	0.084	0.257	0.311	---	---	1.22	1970
1971	---	---	0.153	2.82	0.858	2.24	0.548	0.185	0.108	0.582	---	---	0.883	1971
1972	---	---	0.407	2.40	1.82	0.174	0.048	0.014	0.020	0.031	---	---	0.811	1972
1973	---	---	0.845	0.428	0.258	0.804	0.053	0.043	0.821	0.988	---	---	0.480	1973
1974	---	---	0	5.43	5.88	0.820	0.075	0.087	0.312	0.240	---	---	1.95	1974
1975	---	---	0.122	1.75	2.10	1.03	0.077	0.885	7.18	1.36	---	---	1.76	1975
1976	---	---	0.084	4.58	0.780	4.44	0.536	0.118	0.078	0.074	---	---	1.33	1976
1977	---	---	0.088	0.441	0.157	0.028	0.866	0.278	1.48	0.845	---	---	0.805	1977
1978	---	---	0.185	2.58	0.838	0.418	0.242	0.083	0.288	0.823	---	---	0.809	1978
1979	---	---	0.087	3.21	7.13	1.20	0.146	0.090	0.108	0.081	---	---	1.80	1979
1980	---	---	0.088	0.784	0.204	0.237	0.204	0.388	0.378	0.314	---	---	0.328	1980
MEAN	---	---	0.138	2.11 R	2.22 R	0.858R	0.328	0.128	0.578	0.318	---	---	0.845	MEAN

R - REVISED SINCE JAN 1980

LOCATION - LAT 51 07 30 N DRAINAGE AREA, 142 km²
LONG 100 02 20 W REGULATED

EDWARDS CREEK NEAR DAUPHIN - STATION NO. 05LJ022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	25.0 B AT 18:30 CST ON APR 24	25.0 B ON APR 24	0.028B ON MAR 1	25 300	1957
1958	3.81 AT 08:00 CST ON JUL 5	2.048 ON APR 1	0 B ON MAR 1 *	5 700	1958
1959	7.93 AT 00:00 CST ON MAY 4	5.72 ON MAY 4	0 B ON MAR 1	15 800	1959
1960	41.8 AT 18:30 CST ON MAY 28	22.3 ON MAY 28	0 ON SEP 18	28 800	1960
1961	---	1.01A ON MAY 7	0 B ON MAR 1	3 400	1961
1962	---	4.38A ON MAY 30	0 B ON MAR 1	9 300	1962
1963	24.7 R AT 21:00 CST ON JUN 18	7.90R ON APR 8	0 B ON MAR 1	17 400R	1963
1964	---	5.33B ON APR 11	0 B ON MAR 1	10 300	1964
1965	---	7.48A ON MAY 7	0 B ON MAR 1	17 500	1965
1966	14.3 AT 01:00 CST ON MAY 5	5.67 ON MAY 5	0.005 ON SEP 22	16 500	1966
1967	---	5.97E ON MAY 15	0 B ON MAR 1	12 400	1967
1968	9.00 AT 21:35 CST ON JUL 1	5.55 ON JUL 2	0.018 ON AUG 14	9 950	1968
1969	75.5 R AT 08:06 CST ON JUN 27	41.5 R ON JUN 27	0.001 ON SEP 18	16 800R	1969
1970	28.5 AT 03:12 CST ON MAY 7	20.4 ON MAY 7	0.005 ON SEP 9	25 700	1970
1971	28.1 AT 15:18 CST ON JUN 8	17.3 ON JUN 8	0.018 ON AUG 29	16 300	1971
1972	9.37 AT 00:48 CST ON APR 22	7.36 ON APR 21	0 ON AUG 26	12 800	1972
1973	5.81 AT 20:00 CST ON OCT 3	5.81 ON OCT 3	0 ON JUL 23	10 200	1973
1974	36.5 B AT 12:15 CST ON APR 19	36.2 B ON APR 19	0 B ON MAR 1	41 300	1974
1975	114 AT 10:57 CST ON SEP 18 *	103 ON SEP 18 *	0 ON JUL 13	37 200	1975
1976	75.8 AT 22:00 CST ON JUN 13	32.8 ON JUN 14	0.012 ON OCT 27	27 900	1976
1977	32.0 AT 01:32 CST ON JUL 12	10.9 ON JUL 12	0.001 ON JUN 7	10 700	1977
1978	8.01 AT 20:47 CST ON APR 23	5.66 ON APR 23	0.012 ON AUG 5	12 900	1978
1979	44.7 AT 04:29 CST ON MAY 17	28.5 ON MAY 17	0.018 ON AUG 21	31 800	1979
1980	---	2.71B ON APR 4	0 E ON JUN 12	8 890	1980
				17 900R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

EDWARDS CREEK NEAR DAUPHIN AIRPORT - STATION NO. 05LJ020

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	1.37	1.97	2.52	0.844	0.238	2.13	1.05	---	---	---	1954
1955	---	---	---	2.80	3.76	2.79	0.331	0.088	0.021	0.082	---	---	---	1955
1956	---	---	0.188	1.55	3.01	1.84	0.240	0.188	0.142	---	---	---	---	1956
MEAN	---	---	0.188	1.84	2.91	2.77	0.938	0.183	0.779	0.418	---	---	---	MEAN

LOCATION - LAT 51 08 35 N, LONG 100 03 45 W
DRAINAGE AREA, 138 km^2
NATURAL FLOW

EDWARDS CREEK NEAR DAUPHIN AIRPORT - STATION NO. 05LJ020

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	13.9 ON SEP 29	0.142B ON APR 1	---	1954
1955	---	21.0 ON JUN 18	0 ON SEP 6 *	---	1955
1956	---	36.2 ON JUN 19 *	0 ON JUL 16	---	1956
				---	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

EDWARDS CREEK NEAR OUTLET OF EDWARDS LAKE - STATION NO. 05LJ030

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	---	---	---	---	---	---	---	---	---	0.075	---	1982
1983	0.088	0.123	0.071	0.078	0.040	0.044	0.015	0.058	0.058	0.027	0.118	0.145	0.088	1983
1984	0.118	0.111	0.083	0.078	0.030	0.022	0.028	0.038	0.034	0.017	0.086	0.074	0.058	1984
1985	0.071	0.074	0.083	0.034	0.023	0.018	0.005	0.004	0.083	0.042	0.074	0.108	0.051	1985
1986	0.104	0.100	0.101	0.052	0.230	0.121	0.026	0.012	0.014	0.018	0.101	0.088	0.088	1986
1987	0.083	0.088	0.085	0.085	0.082	0.009	0.012	0.014	0.026	0.010	0.088	0.081	0.057	1987
1988	0.088	0.088	0.081	0.035	0.028	0.010	0.045	0.018	0.003	0.062	0.072	0.088	0.047	1988
1989	0.082	0.080	0.085	0.084	0.068	0.280	0.434	0.001	0.026	0.014	0.084	0.084	0.103	1989
1990	0.100	0.088	0.083	0.082	0.517	0.288	0.126	0.072	0.053	0.018	0.082	0.110	0.133	1990
1991	0.089	0.083	0.093	0.081	0.031	0.804	0.130	0.087	0.058	0.028	0.088	0.088	0.126	1991
1992	0.087	0.080	0.084	0.080	0.139	0.011	0.032	0.010	0.060	0.004	0.151	0.083	0.072	1992
1993	0.078	0.074	0.088	0.001	0.008	0.024	0.025	0.038	0.058	0.014	0.080	0.115	0.048	1993
1994	0.100	0.091	0.101	0.172	0.784	0.148	0.027	0.018	0.082	0.057	0.111	0.114	0.180	1994
1995	0.124	0.118	0.102	0.088	0.083	0.082	0.080	0.078	1.80	0.140	0.148	0.153	0.241	1995
1996	0.142	0.138	0.148	0.154	0.028	0.480	0.088	0.077	0.048	0.047	0.083	0.088	0.124	1996
MEAN	0.098	0.098	0.091	0.078	0.151	0.147	0.078	0.038	0.173	0.031	0.094	0.101	0.088	MEAN

LOCATION - LAT 50 55 30 N, LONG 100 02 40 W
DRAINAGE AREA, 11.7 km^2
REGULATED SINCE 1982

EDWARDS CREEK NEAR OUTLET OF EDWARDS LAKE - STATION NO. 05LJ030

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1982	---	---	---	---	1982
1983	---	0.484E ON APR 17	0 E ON JUL 6 *	2 180	1983
1984	---	0.150 ON MAY 5	0 E ON MAY 21	1 820	1984
1985	---	0.224 ON APR 30	0 E ON JUN 24	1 800	1985
1986	---	0.686 ON MAY 21	0.003 ON APR 6	2 800	1986
1987	---	0.248 ON MAY 17	0 E ON JUN 6	1 800	1987
1988	---	0.235 ON JUL 2	0.001 ON SEP 30	1 490	1988
1989	---	2.61 ON JUN 30	0 ON AUG 9	3 240	1989
1990	---	1.64 ON MAY 20	0.008 ON OCT 16	4 190	1990
1991	---	1.12 ON JUN 14	0.004 ON OCT 17	3 870	1991
1992	---	0.241 ON MAY 17	0 ON JUL 5	2 270	1992
1993	---	0.227E ON SEP 5	0 ON APR 7	1 650	1993
1994	---	1.80 ON MAY 12	0.013E ON JUL 6	4 720	1994
1995	33.1 AT 12:00 CST ON SEP 19 *	22.9 ON SEP 19 *	0.001 ON AUG 24	7 690	1995
1996	---	3.84 ON JUN 16	0.002E ON JUN 4	3 820	1996
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 080	MEAN

E - ESTIMATED

ELGIN CREEK NEAR SOURIS - STATION NO. 05MG012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.177	0.425	0.088	0	0	0	0	---	---	---	0.088	1981
1982	---	---	0	1.36	0.085	0.128	0.048	0.018	0.036	0	---	---	0.192	1982
1983	---	---	0.108	0.221	0.002	0.023	0	0	0	0	---	---	0.044	1983
1984	---	---	0	0.535	0.148	0.001	0	0	0	0	---	---	0.084	1984
1985	---	---	0	2.75	0.043	0.015	1.39	0.077	0.188	0.088	---	---	0.562	1985
1986	---	---	0.483	0.481	0.127	0.088	0.008	0	0	0	---	---	0.138	1986
1987	---	---	0.011	0.702	0.130	0	0	0	0	0	---	---	0.104	1987
1988	---	---	0	2.62	0.107	0.008	0.338	0.022	0.002	0	---	---	0.381	1988
1989	---	---	0	4.18	0.832	0.042	0.350	0.018	0	0	---	---	0.662	1989
1990	---	---	0.001	0.526	0.088	0.328	0.140	0	0	0	---	---	0.134	1990
1991	---	---	1.77	0.287	0.088	0.009	0.001	0.080	0.003	0	---	---	0.262	1991
1992	---	---	0	0	0	0.027	0.229	0.058	0.042	0.017	---	---	0.047	1992
1993	---	---	0	8.50	0.795	0.086	0	0	0	0	---	---	1.15	1993
1994	---	---	0	4.09	1.06	0.173	0.015	0.135	0.303	0.141	---	---	0.723	1994
1995	---	---	0.006	11.9	0.252	0.253	0.031	0	0	0	---	---	1.48	1995
1996	---	---	0	0	0	0	0	0	0	0	---	---	0	1996
1997	---	---	0.006	1.89	0.058	0.006	0	0	0	0	---	---	0.252	1997
1998	---	---	0	1.72	0.550	0.048	0	0	0	0	---	---	0.288	1998
1999	---	---	0	0.308	0.001	0	0	0.182	0.088	0.080	---	---	0.084	1999
2000	---	0.378	0.121	0.021	0.007	0.028	0.028	0	0.001	0.001	---	---	0.028	2000
2001	---	---	0.027	4.66	0.128	0.031	0	0	0	0	---	---	0.597	2001
2002	---	---	0.038	2.44	0.048	0.005	0	0	0	0	---	---	0.308	2002
2003	---	---	0.021	0.017	0.128	0.001	0	0	0	0	---	---	0.021	2003
MEAN	---	0.378	0.118	2.14	0.212	0.084	0.112	0.028	0.028	0.013	---	---	0.336	MEAN

LOCATION - LAT 49 35 28 N DRAINAGE AREA, 1 180 km^2
LONG 100 14 05 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.91 AND 0 m^3/s OCCURRED IN FEB

ELGIN CREEK NEAR SOURIS - STATION NO. 05MG012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	2.06 ON APR 5	0B ON MAR 1 *	1 610	1981
1982	---	8.81 ON APR 17	0B ON MAR 1	4 070	1982
1983	---	0.809 ON APR 7	0B ON MAR 1	824	1983
1984	---	3.63 ON APR 9	0B ON MAR 1	1 730	1984
1985	---	17.3 ON APR 11	0B ON MAR 1	11 900	1985
1986	---	3.71 B ON MAR 31	0B ON MAR 1	2 840	1986
1987	---	1.88 ON APR 14	0B ON MAR 1	2 306	1987
1988	---	11.3 B ON APR 14	0B ON MAR 1	8 070	1988
1989	---	18.0 ON APR 27	0B ON MAR 1	14 500	1989
1990	---	1.48 B ON APR 8	0B ON MAR 1	2 840	1990
1991	---	8.12 B ON MAR 17	0B ON MAR 1	5 870	1991
1992	---	1.78 ON JUL 27	0B ON MAR 1	888	1992
1993	---	38.8 B ON APR 19	0B ON MAR 1	24 300	1993
1994	---	25.3 ON APR 28	0B ON MAR 1	15 500	1994
1995	---	54.4 B ON APR 10 *	0 ON JUL 22	31 500	1995
1996	---	0.0018 ON MAR 14	0B ON MAR 1	0.80	1996
1997	---	8.84 B ON APR 4	0B ON MAR 1	5 330	1997
1998	---	18.7 B ON APR 22	0B ON MAR 1	8 050	1998
1999	---	2.75 B ON APR 8	0B ON MAR 1	1 780	1999
2000	---	0.2158 ON MAR 1	0 ON MAY 21	888	2000
2001	35.8 B AT 17:06 CST ON APR 13 *	25.0 B ON APR 14	0B ON MAR 1	12 600	2001
2002	9.46 AT 21:03 CST ON APR 5	8.57 B ON APR 4	0B ON MAR 1	5 550	2002
2003	0.484 AT 13:00 CST ON MAY 7	0.488 ON MAY 7	0B ON MAR 1	438	2003
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 070	MEAN

ELM CREEK CHANNEL NO. 1 NEAR FANNYSTELLE - STATION NO. 05DG004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0.053	7.28	0.437	0.147	0.004	0	0	0	---	---	0.872	1980
1981	---	---	0.078	3.09	0.107	0	0	0	0	0	---	---	0.516	1981
1982	---	---	0	2.81	1.80	2.20 R	0.178	3.49	0.034	0	---	---	1.28 R	1982
1984	---	---	0	2.07	0.091	0.549	0.022	0.005	0.012	0	---	---	0.337	1984
1985	---	---	0	5.78	0.884	0.235	0	0	0	0	---	---	1.31	1985
1986	---	---	0.024	4.01	2.57	0	0.314	0.249	0.380	0	---	---	0.937	1986
1987	---	---	0	18.7	0.808	0.003	0.052	0	0	0	---	---	2.18	1987
1988	---	---	0.180	0.322R	0.022	0.005	0.183	4.85	0.814	0.018	---	---	0.795R	1988
1989	---	---	0	9.46	2.87	1.03	2.92	1.44	0.014	0	---	---	2.20	1989
1970	---	---	0	15.5	5.12	0.820	0.044	0	0	0	---	---	2.78	1970
1971	---	---	0	5.06	0.358	0.070	0.080	0.008	0	0.053	---	---	0.693	1971
1972	---	---	0.611	5.54	0.121	0	0	0.018	0	0	---	---	0.746	1972
1973	---	---	0.037	0.020	0.013	0.010	0.157	0.194	0.025	0.043	---	---	0.139	1973
1974	---	---	0	18.4	11.9	0.369	0	0	0	0	---	---	3.81	1974
1975	---	---	0	3.82	0.853	0.108	---	---	---	---	---	---	---	1975
1976	---	---	0	10.4	0.055	0.081	0.001	0	0	0	---	---	1.30	1976
1977	---	---	0.001	0.290	0.301	0.181	0.181	0	0.859	0	---	---	0.226	1977
MEAN	---	---	0.135	5.73 R	1.70	0.331R	0.258	0.849	0.121	0.007	---	---	1.28	MEAN

LOCATION - LAT 49 48 42 N DRAINAGE AREA, 880 km²
LONG 97 46 38 W REGULATED

R - REVISED SINCE JAN 1980

ELM CREEK CHANNEL NO. 1 NEAR FANNYSTELLE - STATION NO. 05DG004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	18.0 B ON APR 7	0B ON MAR 1 *	30 650	1980
1981	---	14.0 B ON APR 8	0B ON MAR 1	10 800	1981
1982	---	27.5 ON AUG 23	0B ON MAR 1	29 700R	1982
1984	---	11.6 ON APR 15	0B ON MAR 1	7 130	1984
1985	---	56.6 ON APR 14	0B ON MAR 1	27 700	1985
1986	---	27.3 ON MAY 5	0B ON MAR 1	19 600	1986
1987	---	57.6 ON APR 20	0B ON MAR 1	45 800	1987
1988	---	36.5 ON AUG 24	0B ON MAR 1	16 800R	1988
1989	---	43.6 B ON APR 10	0B ON MAR 1	46 800	1989
1970	---	59.1 ON APR 25	0B ON MAR 1	58 300	1970
1971	---	36.2 ON APR 11	0B ON MAR 1	14 700	1971
1972	29.2 B AT 04:20 CST ON APR 15	28.7 B ON APR 15	0B ON MAR 1	15 800	1972
1973	---	2.548 ON MAR 23	0B ON MAR 1	2 850	1973
1974	---	78.0 B ON APR 15 *	0B ON MAR 1	80 700	1974
1975	28.4 AT 02:15 CST ON APR 29	21.3 ON APR 29	0B ON MAR 1	---	1975
1976	58.5 B AT 02:00 CST ON APR 8 *	57.8 B ON APR 7	0B ON MAR 1	27 600	1976
1977	9.77 AT 23:13 CST ON SEP 9	4.42 ON SEP 10	0B ON MAR 1	4 600	197[illegible]

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

25 700R MEAN

ELM CREEK CHANNEL NO. 2 NEAR ELM CREEK - STATION NO. 05DG005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	3.22 R	0.303R	0.088R	0	0	0	0	---	---	0.683R	1980
1981	---	---	0.777	1.30	0.085	0	0	0	0	0	---	---	0.533	1981
1982	---	---	0	1.62	0.885	1.36	0.114	1.41	0.031	0.035	---	---	0.669	1982
1983	---	---	0.744	1.09	0.874	1.70	0.070	0	0	0	---	---	1.10	1983
1984	---	---	0	0.719	0.075	0.348	0	0	0	0	---	---	0.281	1984
1985	---	---	0	4.81	0.385	0.215	0	0	0	0	---	---	1.33	1985
1986	---	---	0	0.833	1.68	0.011	0.262	0.118	0.088	0	---	---	0.553	1986
1987	---	---	0	7.22	0.812	0	0	0	0	0	---	---	1.93	1987
1988	---	---	0.109	0.187	0.045	0.002	0.078	1.88	0.358	0.012	---	---	0.668	1988
1989	---	---	0	8.58	1.63	0.636	2.37	0.380	0.005	0	---	---	1.89	1989
1970	---	---	0	9.19	4.50	0.407	0.017	0	0.002	0	---	---	3.50	1970
1971	---	---	0	2.00	0.228	0.045	0.043	0.002	0	0.023	---	---	0.580	1971
1972	---	---	0.830	2.61	0.114	0	0	0.020	0	0	---	---	0.762	1972
1973	---	---	0.585	0.014	0.012	0.003	---	---	---	---	---	---	0.156	1973
1974	---	---	0	10.4	5.41	0.877	---	---	---	---	---	---	4.84	1974
1975	---	---	0	1.61	0.337	0.148	0.070	0.002	0.001	0	---	---	0.567	1975
1976	---	---	0	5.81	0.048	0.082	0	0	0	---	---	---	1.48	1976
1977	---	---	0	0.084	0.043	0.017	---	---	---	---	---	---	0.031	1977
1978	---	---	0.883	4.05	0.778	0.230	---	---	---	---	---	---	1.25	1978
1979	---	---	0	10.9	5.82	1.11	---	---	---	---	---	---	5.48	1979
1980	---	---	0	0.617	0	0	---	---	---	---	---	---	0.152	1980
1981	---	0.008	0.047	0.005	0	0	---	---	---	---	---	---	0.013	1981
1982	---	---	0.013	0.575	0	0	---	---	---	---	---	---	0.150	1982
1983	---	---	0.677	2.88	0.044	0.102	---	---	---	---	---	---	0.802	1983
1984	---	---	0.058	0.038	0.141	0.323	---	---	---	---	---	---	0.138	1984
MEAN	---	0.008	0.188	3.08 R	1.24 R	0.268R	0.303	0.254	0.030	0.008	---	---	1.19	MEAN

LOCATION - LAT 49 48 42 N DRAINAGE AREA, 873 km²
LONG 97 58 57 W REGULATED

R - REVISED SINCE JAN 1980

REMARKS - AN EQUATION TO GENERATE SOME ANNUAL FLOW VOLUME IS AVAILABLE

ELM CREEK CHANNEL NO. 2 NEAR ELM CREEK - STATION NO. 05MS005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	5.61 ON APR 11	0S ON MAR 1 *	9 420R	1980
1981	---	5.36 B ON APR 1	0S ON MAR 1	5 810	1981
1982	---	10.3 B ON APR 20	0S ON MAR 1	8 180	1982
1983	---	10.7 ON JUN 4	0S ON MAR 1	11 800	1983
1984	---	4.38 ON APR 15	0S ON MAR 1	2 980	1984
1985	---	33.4 ON APR 13	0S ON MAR 1	14 100	1985
1986	---	13.8 ON MAY 5	0S ON MAR 1	4 880	1986
1987	---	25.1 ON APR 20	0S ON MAR 1	20 300	1987
1988	---	0.7088 ON MAR 29	0S ON MAR 1	802	1988
1989	---	26.8 ON APR 12	0S ON MAR 1	21 100	1989
1970	---	43.0 ON APR 25	0S ON MAR 1	37 000	1970
1971	---	13.4 ON APR 11	0S ON MAR 1	5 900	1971
1972	---	13.0 B ON APR 14	0S ON MAR 1	6 250	1972
1973	---	1.81 B ON MAR 22	0S ON MAR 1	1 850	1973
1974	---	47.0 B ON APR 17	0S ON MAR 1	51 000	1974
1975	---	6.69 B ON APR 14	0S ON MAR 1	5 930	1975
1976	---	36.8 B ON APR 8	0S ON MAR 1	15 400	1976
1977	---	0.2418 ON APR 9	0S ON MAR 1	328	1977
1978	---	19.2 B ON APR 10	0S ON MAR 1	13 200	1978
1979	---	82.1 A ON APR 23 *	0S ON MAR 1	57 500	1979
1980	---	2.30 B ON APR 10	0S ON MAR 1	1 800	1980
1981	---	0.0888 ON MAR 18	0 ON APR 10	140	1981
1982	3.82 AT 19:57 CST ON APR 14	2.86 B ON APR 13	0S ON MAR 1	1 880	1982
1983	17.8 B AT 02:15 CST ON APR 4 *	14.3 B ON APR 4	0S ON MAR 1	10 100	1983
1984	3.47 AT 02:46 CST ON JUN 22	2.86 ON JUN 22	0S ON MAR 1	1 470	1984
				12 500R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

ELM CREEK CHANNEL NO. 3 NEAR ELM CREEK - STATION NO. 05MS006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	1.84 R	0.145	0.050	0.003	0	0	0	---	---	0.501R	1980
1981	---	---	0.264	0.789	0.020	0	0	0	0	0	---	---	0.264	1981
1982	---	---	0	0.797	0.385	0.167	0.008	0.878	0.005	0	---	---	0.338	1982
1984	---	---	0	0.484	0.018	0	0	0	0	0	---	---	0.123	1984
1985	---	---	0	3.87	0.228	0.104	0	0	0	0	---	---	0.738	1985
1986	---	---	0.008	0.586	0.788	0.002	0.133	0.018	0.043	0	---	---	0.340	1986
1987	---	---	0	4.81	0.586	0.002	0	0	0	0	---	---	1.25	1987
1988	---	---	0.026	0.186	0.018	0.002	0.038	1.08	0.244	0.018	---	---	0.057	1988
1989	---	---	0	3.18	1.07	0.436	1.83	0.262	0.002	0	---	---	1.18	1989
1970	---	---	0	4.78	2.88	0.181	0.008	0	0	0	---	---	1.85	1970
1971	---	---	0	1.18	0.122	0.008	0.087	0.003	0	0.024	---	---	0.323	1971
1972	---	---	0.384	1.40	0.078	0	0	0	0	0	---	---	0.484	1972
1973	---	---	0.324	0.005	0.005	0.001	0.004	0.005	0.002	0.005	---	---	0.088	1973
1974	---	---	0	8.27	8.89	0.297	0	0	0	0	---	---	3.37	1974
1975	---	---	0	0.887	0.285	0.031	---	---	---	---	---	---	0.317	1975
1976	---	---	0	2.88	0.041	0.037	---	0	0	---	---	---	0.874	1976
1977	---	---	0.001	0.058	0	0.012	---	---	---	---	---	---	0.018	1977
1978	---	---	0	1.41	0.287	0.133	---	---	---	---	---	---	0.451	1978
1979	---	---	0	8.87	7.32	0.790	---	---	---	---	---	---	3.40	1979
1980	---	---	0	0.328	0	0	---	---	---	---	---	---	0.080	1980
1981	---	0.008	0.003	0	0	0	---	---	---	---	---	---	0.001	1981
1982	---	---	0.049	0.278	0	0	---	---	---	---	---	---	0.081	1982
1983	---	---	0.387	1.28	0	0.038	---	---	---	---	---	---	0.428	1983
1984	---	---	0.040	0.022	0.058	0	---	---	---	---	---	---	0.030	1984
MEAN	---	0.008	0.062	1.72 R	0.878	0.098	0.152	0.136	0.020	0.003	---	---	0.685	MEAN

LOCATION - LAT 49 47 54 N
LONG 98 00 30 W
DRAINAGE AREA, 484 km^2
REGULATED

R - REVISED SINCE JAN 1980

REMARKS - AN EQUATION TO GENERATE SOME ANNUAL FLOW VOLUME IS AVAILABLE

ELM CREEK CHANNEL NO. 3 NEAR ELM CREEK - STATION NO. 05BG006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	4.86 ON APR 8	0B ON MAR 1 *	5 280 R	1980
1981	---	3.86 B ON MAR 31	0B ON MAR 1	2 760	1981
1982	---	7.82 B ON APR 20	0B ON MAR 1	3 530	1982
1984	---	1.70 B ON APR 11	0B ON MAR 1	1 300	1984
1985	---	15.6 ON APR 13	0B ON MAR 1	7 780	1985
1986	---	6.80 ON MAY 6	0B ON MAR 1	3 680	1986
1987	---	20.5 ON APR 21	0B ON MAR 1	13 200	1987
1988	---	2.36 ON APR 23	0B ON MAR 1	898	1988
1989	---	10.7 ON APR 11	0B ON MAR 1	12 200	1989
1970	---	24.7 ON APR 28	0B ON MAR 1	20 800	1970
1971	---	7.11 B ON APR 10	0B ON MAR 1	3 400	1971
1972	---	8.85 B ON APR 15	0B ON MAR 1	4 800	1972
1973	---	1.10 B ON MAR 22	0B ON MAR 1	807	1973
1974	---	41.8 E ON MAY 21 *	0B ON MAR 1	35 800	1974
1975	---	4.86 ON APR 28	0B ON MAR 1	3 340	1975
1976	---	11.7 B ON APR 6	0B ON MAR 1	7 110	1976
1977	---	0.340B ON APR 13	0B ON MAR 1	188	1977
1978	---	8.74 B ON APR 10	0B ON MAR 1	4 750	1978
1979	---	23.4 ON APR 23	0B ON MAR 1	35 800	1979
1980	---	1.06 B ON APR 8	0B ON MAR 1	843	1980
1981	---	0.011B ON MAR 1	0B ON MAR 15	7.82	1981
1982	1.85B AT 00:00 CST ON APR 13 *	1.26 B ON APR 13	0B ON MAR 1	851	1982
1983	---	8.07 B ON APR 4	0B ON MAR 1	4 480	1983
1984	1.04 AT 05:09 CST ON MAY 7	0.752 ON MAY 7	0B ON MAR 1	311	1984
				7 210 R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

EPINETTE CREEK NEAR CARBERRY - STATION NO. 05MH007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.031	0.380	0.623	---	---	---	---	---	---	---	---	1961
1983	---	---	0.078	0.171	0.382	0.806	0.180	0.042	0.024	0.034	---	---	0.213	1983
1984	---	---	0.014	0.154	0.532	0.177	0.118	0.024	0.083	0.033	---	---	0.142	1984
1985	---	---	0.014	1.03	1.21	1.04	0.090	0.086	0.315	0.328	---	---	0.495	1985
1986	---	---	0.058	1.80	1.31	0.315	0.086	0.029	0.013	0.016	---	---	0.450	1986
1987	---	---	0.022	0.622	0.541	0.077	0.026	0.008	0.005	0.014	---	---	0.184	1987
1988	---	---	0.024	0.024	0.187	0.074	0.023	0.102	0.384	0.284	---	---	0.122	1988
1989	---	---	0.019	1.49	1.48	0.320	1.30	0.252	0.045	0.045	---	---	0.616	1989
1970	---	---	0.040	0.833	2.76	0.888	0.311	0.072	0.035	0.055	---	---	0.601	1970
1971	---	---	0.018	0.507	0.777	0.788	0.724	0.143	0.008	0.077	---	---	0.377	1971
1972	---	---	0.048	0.838	0.888	0.437	0.188	0.181	0.086	0.084	---	---	0.282	1972
1973	---	---	0.030	0.075	0.288	0.201	0.082	0.024	0.037	0.028	---	---	0.081	1973
1974	---	---	0	0.857	2.88	0.847	0.043	0.018	0.022	0.028	---	---	0.883	1974
1975	---	---	0.022	0.150	0.850	0.580	0.130	0.043	0.072	0.048	---	---	0.249	1975
1976	---	---	0.034	3.20	0.898	0.204	0.048	0.017	0.012	0.017	---	---	0.589	1976
1977	---	---	0.038	0.024	0.021	0.013	0.020	0.004	0	0	---	---	0.015	1977
1978	---	---	0.002	1.38	0.788	0.834	0.477	0.004	0.023	0.014	---	---	0.408	1978
1979	---	---	0.028	0.888	3.18	0.841	0.088	0.024	0.018	0.008	---	---	0.805	1979
1980	---	---	0.014	0.083	0.071	0.035	0.020	0.008	0.025	0.048	---	---	0.047	1980
1981	---	---	0.043	0.040	0.008	0.004	0.001	0.001	0.001	0.001	---	---	0.013	1981
1982	---	---	0	0.451	0.188	0.128	0.057	0.004	0.003	0.011	---	---	0.101	1982
1983	---	---	0	0.847	1.12	0.510	0.083	0.005	0.004	0.003	---	---	0.321	1983
1984	---	---	0	0.013	0.018	0.012	0.002	0.001	0.008	0.003	---	---	0.007	1984
MEAN	---	---	0.028	0.862	0.908	0.388	0.188	0.052	0.055	0.048	---	---	0.284	MEAN

LOCATION - LAT 49 44 28 N
LONG 99 19 50 W
DRAINAGE AREA, 388 km^2
NATURAL FLOW

SPINETTE CREEK NEAR CARBERRY - STATION NO. 05MH007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	---	---	---	1981
1983	---	1.23 ON JUN 24	0 B ON MAR 1 *	4 500	1983
1984	---	0.958 ON MAY 11	0.0148 ON MAR 1	3 000	1984
1985	---	2.40 ON APR 20	0.0148 ON MAR 1	10 500	1985
1986	---	3.80 ON APR 8	0.008 ON SEP 18	8 520	1986
1987	---	1.52 ON APR 28	0.003 ON SEP 2	3 480	1987
1988	---	0.832 ON SEP 8	0.003 ON JUL 11	2 800	1988
1989	---	3.78 ON APR 19	0.0148 ON MAR 1	13 100	1989
1970	---	8.00 ON MAY 1	0.021 ON SEP 20	12 700	1970
1971	---	1.78 ON APR 21	0 ON APR 19	7 970	1971
1972	---	1.38 ON APR 23	0.014 ON SEP 11	6 180	1972
1973	---	0.316 ON MAY 8	0.008 ON JUL 23	1 930	1973
1974	---	3.71 ON MAY 21	0 B ON MAR 1	11 900	1974
1975	---	1.38 ON MAY 7	0.001 ON AUG 8	5 280	1975
1978	---	5.72 ON APR 18	0.008 ON AUG 13	11 800	1978
1977	---	0.0488 ON MAR 29	0 ON SEP 10	317	1977
1978	---	2.74 ON APR 14	0 B ON MAR 1	8 880	1978
1979	---	5.40 ON MAY 1 *	0.008 ON OCT 28	12 800	1979
1980	---	0.603 ON AUG 21	0 ON APR 22	988	1980
1981	---	0.101A ON APR 6	0 B ON OCT 22	277	1981
1982	---	1.89 A ON APR 20	0 B ON MAR 1	2 150	1982
1983	2.698 AT 01:06 CST ON APR 15 *	2.01 B ON APR 15	0 B ON MAR 1	6 790	1983
1984	1.22 AT 18:13 CST ON SEP 8	0.085 ON JUN 18	0 B ON MAR 1	145	1984
				6 220	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

FAIRFORD RIVER NEAR FAIRFORD - STATION NO. 05LM001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	220	238	211	220	208	188	---	1912
1913	182	184	189	198	207	228	252	236	228	187	188	183	201	1913
1914	188	148	151	160	183	184	148	148	138	123	113	102	150	1914
1915	85.8	92.7	84.3	83.2	78.0	83.8	78.7	70.3	87.7	80.4	84.2	80.1	73.9	1915
1916	43.8	44.0	45.3	80.8	88.1	87.3	88.8	77.2	89.8	84.3	84.3	86.9	80.1	1916
1917	84.1	84.8	81.8	88.7	88.8	88.7	81.1	73.2	70.7	88.3	88.8	88.3	85.9	1917
1918	88.8	88.3	83.7	86.3	87.7	78.7	78.1	84.1	71.0	72.8	70.0 R	88.1	89.8 R	1918
1919	82.7	88.8	88.7	88.7	70.8	71.8	70.3	84.0	48.8	34.8	---	---	---	1919
1920	---	---	---	---	44.3	80.3	44.8	39.0	33.4	---	---	---	---	1920
1985	---	---	---	---	---	---	---	---	---	207	183	200	---	1985
1986	182	180	181	173	188	210	189	178	188	188	147	181	178	1986
1987	148	141	133	138	141	142	148	138	114	108	90.7	94.0	127	1987
1988	80.1	88.8	82.8	80.0	75.4	81.8	80.8	44.2	38.8	13.8	20.0	11.8	85.2	1988
1989	11.8	7.87	8.11	12.4	18.8	21.3	38.4	44.8	18.1	12.0	48.2	42.8	23.7	1989
1980	7.87	83.1	88.8	82.8	78.7	83.8	71.8	81.8	48.4	38.1	21.4	0	48.8	1980
1981	0	0	0	0	0	0	38.7	18.0	0.850	0	88.7	3.23	8.88	1981
1982	3.28	3.41	3.80	2.41	1.88	1.79	1.88	2.48	2.88	2.08	1.78	1.88	2.38	1982
1983	1.88	1.88	1.71	1.78	1.88	7.88	88.8	38.8	2.88	2.13	1.70	2.04	11.3	1983
1984	2.18	2.04	2.08	2.01	1.88	1.80	1.80	1.84	1.80	1.38	1.22	1.07	1.78	1984
1985	1.18	1.24	1.38	1.77	2.18	3.01	2.78	2.48	2.10	1.41	2.18	1.87	1.87	1985
1986	2.28	2.08	2.81	3.30	8.74	112	118	87.8	47.8	20.1	4.48	8.70	34.1	1986
1987	8.24	8.84	48.2	118	234	280	180	182	31.0	4.34	3.88	44.3	80.7	1987
1988	88.3	87.1	88.7	81.8	42.0	101	111	83.4	78.8	83.1	88.0	133	88.2	1988
1989	88.2	88.2	88.8	88.8	108	88.1	81.8	47.4	41.4	18.2	13.1	7.33	81.8	1989
1970	8.88	7.33	34.8	87.3	122	288	213	188	111	80.7	2.22	0	88.7	1970
1971	0	8.82	84.0	184	238	228	183	88.7	84.3	84.2	72.1	81.7	108	1971
1972	80.8	83.8	88.8	102	148	228	128	28.1	2.48	8.33	48.0	48.0	82.8	1972
1973	48.8	47.8	7.73	8.78	7.48	88.8	181	84.3	83.8	84.0	88.3	74.8	84.4	1973
1974	72.8	74.8	72.8	177	287	321	272	200	188	148	131	130	172	1974
1975	114	77.0	71.7	88.8	183	242	207	121	173	208	188	171	184	1975
1978	183	138	134	204	318	317	278	218	104	20.7	7.88	3.80	188	1978
1977	4.28	4.88	4.88	3.48	8.03	101	188	24.8	18.4	78.2	82.8	82.8	80.2	1977
1978	82.7	88.8	82.8	87.0	88.0	82.7	44.7	20.8	18.0	18.2	24.7	23.7	82.4	1978
1979	28.0	28.8	37.8	140	308	330	301	240	108	117	113	108	188	1979
1980	108	108	108	88.8	88.3	33.8	8.14	18.4	88.1	88.8	84.2	83.1	82.7	1980
1981	81.4 R	80.2 R	30.2	18.8	18.8	18.1	23.8	21.4	18.2	18.4	17.0	18.2	24.7 R	1981
1982	18.8	18.8	18.8	17.8	18.1	18.3	18.8	20.4	14.8	22.3	8.78	8.42	18.8	1982
1983	8.88	8.48	8.87	13.8	74.8	113	184	134	84.3	48.7	48.8	38.7	88.3	1983
1984	38.1	33.8	33.8	34.8	38.8	72.8	188	113	31.2	48.1	38.8	84.3	88.8	1984
MEAN	88.8 R	87.7 R	80.0	74.8	88.7	118	118	88.8	88.8	88.1	84.3 R	82.2	78.7	MEAN

LOCATION - LAT 51 38 00 N LONG 98 42 18 W DRAINAGE AREA, 78 300 km^2 REGULATED SINCE 1934

R - REVISED SINCE JAN 1980

FAIRFORD RIVER NEAR FAIRFORD - STATION NO. 05LM001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	328 ON SEP 9	142 B ON JAN 20	9 340 000	1913
1914	---	274 ON MAY 20	90.9 B ON DEC 24	4 740 000	1914
1915	---	112 B ON JAN 5	38.6 ON SEP 16	2 330 000	1915
1916	---	116 ON JUL 19	30.0 ON SEP 14	1 900 000	1916
1917	---	102 ON JUL 25	38.5 ON JUN 16	2 060 000	1917
1918	---	102 ON JUN 30	38.5 ON NOV 8	2 200 000R	1918
1919	---	103 ON JUL 8	27.1 ON OCT 10	---	1919
1920	---	---	---	---	1920
1955	---	---	---	---	1955
1956	---	227 ON JUN 7	135 ON OCT 9	5 610 000	1956
1957	---	163 ON JUL 26	76.5 ON NOV 23	4 000 000	1957
1958	---	83.4 ON JAN 5	7.83 ON OCT 10	1 740 000	1958
1959	---	70.8 ON JUL 24	3.81 ON OCT 9	747 000	1959
1960	---	98.6 ON JUN 27	0 ON NOV 28 *	1 540 000	1960
1961	---	161 ON NOV 22	0 ON JAN 1	301 000	1961
1962	---	5.46 ON AUG 27	1.19 ON JUN 28	74 500	1962
1963	---	109 E ON JUL 18	1.61 ON NOV 13	355 000	1963
1964	---	2.388 ON JAN 28	1.08 B ON DEC 11	88 200	1964
1965	---	4.11 ON JUN 15	0.130 ON OCT 9	82 100	1965
1966	147 AT 20:10 CST ON JUL 4	130 ON JUN 11	1.22 B ON FEB 13	1 070 000	1966
1967	382 AT 19:20 CST ON JUN 3	323 ON JUN 3	3.38 ON NOV 12	2 880 000	1967
1968	231 B AT 08:00 CST ON DEC 6	221 B ON DEC 6	5.41 ON MAY 10	2 820 000	1968
1969	138 AT 13:57 CST ON MAY 8	131 ON MAY 8	5.32 ON OCT 9	1 850 000	1969
1970	385 AT 13:27 CST ON JUL 1 *	334 ON JUL 1	0 B ON NOV 15	2 730 000	1970
1971	320 AT 09:04 CST ON MAY 28	280 ON MAY 28	0 B ON JAN 1	3 400 000	1971
1972	317 AT 01:43 CST ON JUN 14	268 ON JUN 13	0.881 ON OCT 18	2 610 000	1972
1973	226 AT 18:18 CST ON JUL 22	206 ON JUL 23	4.98 ON MAY 13	1 720 000	1973
1974	368 AT 18:18 CST ON JUN 26	351 ON JUN 8 *	48.3 ON NOV 14	5 420 000	1974
1975	351 AT 14:09 CST ON JUN 28	309 ON JUN 27	54.1 ON AUG 17	4 880 000	1975
1976	368 AT 10:45 CST ON MAY 16	345 ON MAY 16	3.88 B ON DEC 7	4 860 000	1976
1977	270 AT 18:41 CST ON JUN 26	249 ON JUN 22	2.26 ON MAY 2	1 880 000	1977
1978	---	98.1 B ON JAN 6	8.38 ON OCT 6	1 850 000	1978
1979	---	351 ON JUN 6	11.6 ON SEP 6	4 880 000	1979
1980	118 AT 20:42 CST ON JAN 15	114 B ON JAN 12	7.05 ON AUG 26	1 880 000	1980
1981	66.0 AT 06:56 CST ON JAN 3	52.0 RB ON JAN 1	6.83 ON JUN 15	778 000R	1981
1982	107 AT 17:32 CST ON OCT 13	92.9 ON OCT 13	5.72 E ON NOV 4	824 000	1982
1983	194 AT 00:23 CST ON JUL 17	176 ON JUL 16	5.12 ON NOV 26	1 870 000	1983
1984	200 AT 08:57 CST ON JUN 30	182 ON JUN 30	6.83 ON APR 27	1 830 000	1984
				2 380 000R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

FISH LAKE DRAIN NEAR CAMP MORTON - STATION NO. 05BB005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	0.063	0.137	0.017	0.008	0.012	0.028	0.027	0.310	---	---	0.075	1968
1969	---	---	0	1.18	1.39	0.830	0.081	0.024	0	0.453	---	---	0.484	1969
1970	---	---	0	0.481	0.435	0.471	0.351	0	0	0.217	---	---	0.243	1970
1971	---	---	0	0.282	0.082	0.009	0.007	0	0	0.058	---	---	0.051	1971
1972	---	---	0	0.480	0.024	0	0	0	0.002	0	---	---	0.080	1972
1973	---	---	0.088	0.004	0	0.171	0	0.070	0.419	1.03	---	---	0.224	1973
1974	---	---	0	5.82	3.75	1.92	1.88	0.838	0.802	1.57	---	---	2.06	1974
1975	---	---	0	0.521	0.437	0.272	0.187	0.343	0.402	0.808	---	---	0.363	1975
1976	---	---	0	3.18	1.80	1.06	0.802	0.228	0.049	0	---	---	0.868	1976
1977	---	---	0.002	0.044	0.002	0.268	0.313	0.264	1.07	0.888	---	---	0.324	1977
1978	---	---	0	3.87	1.81	1.11	0.847	0.508	0.444	0.238	---	---	0.933	1978
1979	---	---	0	1.78	2.74	2.02	1.02	0.887	0.418	0.288	---	---	1.10	1979
1980	---	---	0	0.834	0.843	0.055	0.180	0.011	0.022	0.035	---	---	0.181	1980
1981	---	---	0.087	0.021	0.002	0.018	0.016	0.201	0.538	0.078	---	---	0.118	1981
1982	---	---	0.143	1.83	0.884	0.548	0.238	0.133	0.103	1.02	---	---	0.888	1982
1983	---	---	0.008	1.87	1.28	0.761	0.828	0.058	0	0.813	---	---	0.872	1983
1984	---	---	0.038	0.110	0.010	0.018	0.001	0	0	0.028	---	---	0.028	1984
MEAN	---	---	0.028	1.22	0.878	0.547	0.371	0.181	0.258	0.390	---	---	0.483	MEAN

LOCATION - LAT 50 42 11 N
LONG 97 01 03 W
DRAINAGE AREA, 832 km^2
REGULATED SINCE 1965

REMARKS - PUBLISHED AS "CHATFIELD LAKE DRAIN" PRIOR TO 1978

FISH LAKE DRAIN NEAR CAMP MORTON - STATION NO. 05BB005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	0.895 ON OCT 10	OB ON MAR 1 *	1 550	1968
1969	---	6.85 ON APR 12	OB ON MAR 1	9 590	1969
1970	---	3.08 ON APR 18	OB ON MAR 1	5 150	1970
1971	---	1.83 ON APR 18	OB ON MAR 1	1 080	1971
1972	---	3.26 B ON APR 15	OB ON MAR 1	1 280	1972
1973	---	4.36 ON OCT 12	OB ON MAR 1	4 780	1973
1974	---	15.8 ON APR 20 *	OB ON MAR 1	43 100	1974
1975	---	1.81 B ON APR 21	OB ON MAR 1	7 280	1975
1976	---	5.87 ON APR 9	OB ON MAR 1	14 400	1976
1977	---	5.84 ON SEP 10	OB ON MAR 1	6 880	1977
1978	---	5.84 ON APR 18	OB ON MAR 1	19 800	1978
1979	---	8.58 ON APR 21	OB ON MAR 1	23 200	1979
1980	---	1.68 ON APR 11	OB ON MAR 1	3 820	1980
1981	---	2.70 A ON SEP 10	OB ON MAR 1	2 520	1981
1982	---	4.74 B ON APR 15	OB ON MAR 1	12 400	1982
1983	---	4.62 B ON APR 5	OB ON MAR 1	12 100	1983
1984	0.877 AT 20:00 CST ON APR 3 *	0.493A ON APR 3	OB ON MAR 1	825	1984
				10 200	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

FISH LAKE DRAIN NEAR MELEB - STATION NO. 05BB004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	0.132	1.15	0.502	0.078	0.024	0.001	0.435	---	---	0.293	1969
1970	---	---	0	0.004	0.328	0.887	0.884	0.002	0	0.243	---	---	0.214	1970
MEAN	---	---	0	0.068	0.745	0.535	0.322	0.013	0.001	0.339	---	---	0.254	MEAN

LOCATION - LAT 50 44 48 N
LONG 97 19 08 W
DRAINAGE AREA, 526 km^2
REGULATED

REMARKS - PUBLISHED AS "CHATFIELD LAKE DRAIN" PRIOR TO 1979

FISH LAKE DRAIN NEAR MELEB - STATION NO. 05BB004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	3.21E ON MAY 15 *	OB ON MAR 1 *	5 200	1969
1970	---	1.33 ON JUN 28	OB ON MAR 1	4 530	1970
				5 370	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

FISHER RIVER NEAR DALLAS - STATION NO. 05BD003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	1.58	0.817	0.368	0.223	0.188	0.181	0.281	0.242	0.128	---	1961
1962	0.081	0.068	0.085	3.88	0.781	0.784	0.347	0.388	0.362	0.421	0.388	0.258	0.843	1962
1963	0.088	0.021	0.381	17.8	4.10	18.8	3.08	1.31	0.881	0.488	0.418	0.290	3.88	1963
1964	0.238	0.213	0.231	4.00	4.15	1.02	0.771	0.713	0.524	0.851	0.558	0.350	1.13	1964
1965	0.278	0.184	0.188	8.10	1.85	2.38	1.02	0.801	0.488	0.478	0.438	0.382	1.35	1965
1966	0.317	0.277	0.311	7.89	8.87	1.08	0.508	0.308	0.238	0.282	0.248	0.241	1.41	1966
1967	0.217	0.188	0.238	9.18	2.80	0.884	0.481	0.390	0.232	0.383	0.317	0.274	1.28	1967
1968	0.183	0.178	0.842	4.07	1.84	1.80	0.870	0.680	0.889	0.884	0.841	0.310	1.08	1968
1969	0.287	0.300	0.298	8.17	1.10	1.30	0.830	4.81	1.48	2.38	1.01	0.470	1.83	1969
1970	0.385	0.315	0.281	13.3	7.88	1.83	0.748	0.330	0.383	0.334	0.318	0.217	2.12	1970
1971	0.183	0.088	0.188	5.83	0.840	0.482	0.337	0.233	0.238	0.282	0.282	0.218	0.784	1971
1972	0.141	0.100	0.128	11.3	1.73	0.848	0.337	0.308	0.218	0.244	0.193	0.105	1.28	1972
1973	0.087	0.087	1.03	0.817	0.348	3.14	0.409	0.288	0.832	1.72	0.708	0.432	0.771	1973
1974	0.317	0.371	0.388	32.1	28.1	8.32	0.881	0.388	0.380	0.388	0.381	0.274	5.88	1974
1975	0.381	0.188	0.232	8.89	1.11	0.778	0.882	14.1	18.1	8.35	2.24	0.888	4.04	1975
1976	0.882	0.840	0.481	48.8	8.01	1.27	0.883	0.344	0.238	0.251	0.238	0.110	4.74	1976
1977	0.078	0.078	0.241	0.720	0.883	0.880	0.778	0.280	0.488	0.898	0.471	0.318	0.440	1977
1978	0.241	0.211	0.284	13.8	1.87	1.48	0.843	0.432	0.482	0.348	0.347	0.304	1.81	1978
1979	0.198	0.188	0.238	28.8	18.1	4.48	0.823	0.488	0.418	0.418	0.383	0.273	4.88	1979
1980	0.211	0.248	0.333	8.12	0.488	0.282	0.280	0.808	1.13	0.840	0.770	0.803	0.818	1980
1981	0.383	0.472	1.84	1.78	1.08	2.23	0.880	0.770	1.24	2.82	2.88	0.714	1.48	1981
1982	0.388	0.312	0.801	18.7	3.88	1.88	1.82	0.885	0.483	0.818	0.818	0.878	2.38	1982
1983	0.288	0.227	0.274	12.7	1.27	2.87	0.782	0.338	0.238	0.328	0.332	0.188	1.84	1983
1984	0.883	0.118	0.388	1.88	0.814	12.8	1.87	0.284	0.313	0.287	0.813	0.824	1.88	1984
MEAN	0.233	0.214	0.388	10.8	4.87	2.87	0.788	1.21	1.17	0.828	0.688	0.347	2.84	MEAN

LOCATION - LAT 51 21 30 N
LONG 97 30 00 W
DRAINAGE AREA, 1 480 km^2
NATURAL FLOW

FISHER RIVER NEAR DALLAS - STATION NO. 05SD003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	4.53E ON APR 20	---	---	1981
1982	---	28.7 ON APR 22	0.051 ON MAR 2	20 300	1982
1983	---	70.2 B ON APR 8	0.0098 ON MAR 5 *	135 000	1983
1984	---	15.6 ON APR 15	0.167 ON FEB 27	35 800	1984
1985	---	56.1 ON APR 15	0.133 ON MAR 7	42 800	1985
1986	---	34.8 ON APR 4	0.1838 ON NOV 15	44 500	1986
1987	---	48.2 ON APR 15	0.147 ON SEP 24	38 700	1987
1988	---	10.4 ON APR 8	0.0788 ON MAR 4	33 200	1988
1989	---	43.8 B ON APR 13	0.2278 ON JAN 12	57 800	1989
1970	---	38.5 ON APR 20	0.1838 ON NOV 28	68 800	1970
1971	---	28.4 B ON APR 12	0.0748 ON FEB 17	24 100	1971
1972	---	48.4 B ON APR 15	0.0828 ON DEC 30	38 800	1972
1973	10.4 AT 21:30 CST ON JUN 15	9.88 ON JUN 15	0.0488 ON JAN 6	24 300	1973
1974	105 AT 15:35 CST ON APR 22	105 ON APR 22	0.207 ON JAN 15	185 000	1974
1975	42.8 AT 08:21 CST ON AUG 27	42.2 ON AUG 27	0.150 ON JAN 24	128 000	1975
1976	88.7 AT 20:43 CST ON APR 8	85.2 ON APR 8	0.085 ON DEC 8	148 000	1976
1977	1.75 AT 10:57 CST ON MAY 20	1.67 ON MAY 20	0.094 ON JAN 22	13 900	1977
1978	83.4 AT 10:15 CST ON APR 15	58.8 ON APR 15	0.1788 ON FEB 7	80 800	1978
1979	121 AT 14:00 CST ON APR 23 *	118 ON APR 23 *	0.1448 ON JAN 17	147 000	1979
1980	20.1 AT 06:00 CST ON APR 11	14.8 ON APR 11	0.153 ON AUG 3	34 800	1980
1981	9.08 AT 19:14 CST ON NOV 1	8.77B ON MAR 20	0.2058 ON FEB 13	47 100	1981
1982	---	49.7 E ON APR 17	0.1838 ON FEB 18	74 000	1982
1983	65.6 B AT 12:00 CST ON APR 8	65.4 B ON APR 8	0.0898 ON DEC 31	51 700	1983
1984	81.1 A ON JUN 24	73.2 A ON JUN 24	0.0878 ON JAN 30	48 800	1984
				84 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

FISHING RIVER NEAR FORK RIVER - STATION NO. 05LJ018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	0	5.75	4.02	0.013	0.870	0.184	0.039	0	---	---	1.33	1948
1949	---	---	0	0.882	0.055	0.123	0.092	0.018	0	0	---	---	0.117	1949
1950	---	---	0	1.12	0.277	0.388	0.303	0.095	0	0.004	---	---	0.270	1950
1951	---	---	0	1.58	0.828	0.073	0.104	0.309	0.232	0.273	---	---	0.410	1951
1952	---	---	0	2.25	0.170	0.082	0.005	0	0	0	---	---	0.303	1952
1953	---	---	0	1.50	0.849	5.38	1.19	0.274	0.103	0.181	---	---	1.27	1953
1954	---	---	0	2.91	1.65	8.18	1.47	0.013	0.414	0.884	0.127	---	1.84	1954
1955	---	---	0	3.21	2.48	0.883	0.088	0	0	0	---	---	0.831	1955
1956	---	---	0	0.327	3.23	0.488	0.373	0.047	0.018	0.008	---	---	0.588	1956
1957	---	---	0.028	1.71	0.840	0.078	0.005	0	0	0	---	---	0.304	1957
1958	---	---	0.027	0.071	0.008	0.001	0	0	0	0	---	---	0.013	1958
1959	---	---	0.014	0.122	0.085	0.088	0.088	0	0	0	---	---	0.039	1959
1960	---	---	0	1.32	0.473	0.078	0.002	0	0	0	---	---	0.231	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0.288	0.088	0.073	0	0	0	0	---	---	0.055	1962
1963	---	---	0.182	0.446	0.101	0.185	0.017	0.001	0	0	---	---	0.112	1963
1964	---	---	0	0.047	0.031	0	0	0	0	0	---	---	0.010	1964
1965	---	---	0	0.076	0.081	0.088	0.288	0.088	0.432	0.188	---	---	0.148	1965
1966	---	---	0.880	1.82	0.848	0.238	0.187	0.004	0.001	0.008	---	---	0.451	1966
1967	---	---	0.003	0.533	1.38	0.088	0	0	0	0	---	---	0.245	1967
1968	---	---	0.180	0.008	0.001	0	0	0	0	0	---	---	0.025	1968
1969	---	---	0	0.982	0.078	0.032	0.218	0.033	0.117	0.003	---	---	0.178	1969
1970	---	---	0.001	2.30	1.78	0.847	0.832	0.074	0.001	0.002	---	---	0.740	1970
1971	---	---	0.002	2.11	0.047	0.414	0.004	0	0	0.002	---	---	0.318	1971
1972	---	---	0.008	1.44	0.388	0.003	0	0	0	0	---	---	0.222	1972
1973	---	---	0	0.001	0.001	0.008	0.001	0	0	0	---	---	0.001	1973
1974	---	---	0	2.83	5.88	0.470	0.008	0	0	0	---	---	1.18	1974
1975	---	---	0	2.01	0.775	0.878	0	0	0.227	0.082	---	---	0.800	1975
1976	---	---	0.001	3.80	0.034	7.18	0.087	0	0	0	---	---	1.33	1976
1977	---	---	0.003	0.011	0.003	0.001	0	0.002	0.040	0.088	---	---	0.018	1977
1978	---	---	0.008	0.882	0.088	0.033	0.036	0	0.001	0.003	---	---	0.088	1978
1979	---	---	0	4.42	2.80	0.444	0.013	0.008	0	0	---	---	0.888	1979
1980	---	---	0	0.858	0.004	0	0	0.003	0	0.001	---	---	0.081	1980
1981	---	---	0.002	0.008	0.031	0.187	0.130	0	0	0.008	---	---	0.041	1981
1982	---	---	0.202	0.473	0.102	0.027	0.088	0.022	0	0.038	---	---	0.117	1982
MEAN	---	---	0.038	1.34	0.837	0.748	0.181	0.030	0.048	0.042	0.127	---	0.403	MEAN

LOCATION - LAT 51 28 57 N, LONG 100 02 28 W
DRAINAGE AREA, 382 km^2
NATURAL FLOW

FISHING RIVER NEAR FORK RIVER - STATION NO. 05LJ015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	38.7 ON APR 24	0.0 ON MAR 1 *	28 100	1948
1949	---	3.68 ON APR 4	0.0 ON MAR 1	2 480	1949
1950	---	8.41 ON APR 30	0.0 ON MAR 1	5 710	1950
1951	---	8.30 ON APR 5	0.0 ON MAR 1	8 670	1951
1952	---	15.1 B ON APR 7	0.0 ON MAR 1	6 420	1952
1953	---	28.6 ON JUN 5	0.0 ON MAR 1	26 600	1953
1954	---	20.2 B ON APR 17	0.0 ON MAR 1	34 700	1954
1955	---	13.6 ON APR 6	0.0 ON MAR 1	17 600	1955
1956	---	7.48 ON MAY 1	0.0 ON MAR 1	12 000	1956
1957	---	4.33 ON APR 28	0.0 ON MAR 1	5 440	1957
1958	---	0.6958 ON MAR 31	0.0 ON MAR 1	276	1958
1959	---	0.388 ON APR 5	0.0 ON MAR 1	830	1959
1960	---	4.11 ON APR 18	0.0 ON MAR 1	4 900	1960
1961	---	0.0 B ON MAR 1	0.0 ON MAR 1	0	1961
1962	---	2.62 ON APR 19	0.0 ON MAR 1	1 180	1962
1963	---	1.56 B ON APR 5	0.0 ON MAR 1	2 270	1963
1964	---	0.142 ON APR 13	0.0 ON MAR 1	205	1964
1965	---	3.83 ON SEP 24	0.0 ON MAR 1	3 080	1965
1966	---	5.83 ON APR 1	0.0 ON JUL 24	5 540	1966
1967	---	5.17 B ON MAY 1	0.0 ON MAR 1	5 180	1967
1968	---	1.15 B ON MAR 27	0.0 ON MAR 1	533	1968
1969	---	3.20 ON APR 14	0.0 ON MAR 1	3 780	1969
1970	---	7.80 ON APR 27	0.0 ON MAR 1	15 700	1970
1971	---	7.67 B ON APR 12	0.0 ON JUL 24	5 880	1971
1972	---	5.15 B ON APR 18	0.0 ON JUN 15	4 700	1972
1973	---	0.065 ON JUN 28	0.0 ON MAR 1	21.6	1973
1974	---	16.2 ON APR 30	0.0 ON MAR 1	24 300	1974
1975	---	5.41 ON APR 28	0.0 ON MAR 1	10 800	1975
1976	---	52.4 ON JUN 15 *	0.0 ON MAR 1	26 300	1976
1977	0.402 AT 11:35 CST ON SEP 28	0.328 ON SEP 28	0.0 ON MAR 1	311	1977
1978	---	2.21 B ON APR 10	0.0 ON MAR 1	2 000	1978
1979	24.4 AT 00:40 CST ON APR 26 *	20.8 ON APR 24	0.0 ON MAR 1	20 500	1979
1980	4.14 B AT 13:35 CST ON APR 7	3.78 B ON APR 7	0.0 ON MAR 1	1 720	1980
1981	3.61 AT 00:55 CST ON JUN 24	1.80 ON JUN 24	0.0 ON MAR 1	873	1981
1982	---	3.17 B ON APR 15	0.0 ON MAR 1	2 480	1982
				8 540	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

FOOTPRINT RIVER ABOVE FOOTPRINT LAKE - STATION NO. 05TF002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	---	---	---	---	---	---	---	3.84	1.87	1.47	---	1977
1978	1.16	0.850	0.733	0.935	5.48	8.82	2.41	5.90	7.90	10.1	6.92	3.36	4.30	1978
1979	2.70	2.46	2.37	2.38	3.69	7.55	3.93	3.48	2.47	3.27	3.07	2.77	3.36	1979
1980	1.77	1.18	1.04	1.83	3.27	1.41	0.951	1.22	7.92	11.1	10.2	6.02	3.66	1980
1981	2.85	2.04	1.89	1.40	7.48	5.42	1.84	0.614	0.410	0.398	0.518R	0.706R	2.14R	1981
1982	0.836	0.881	0.863	1.17	10.7	10.8	5.75	4.60	5.83	5.83	5.16	3.85	4.81	1982
1983	2.78	2.17	1.85	1.80	8.87	10.8	8.04	4.45	---	---	---	---	---	1983
1984	1.39	0.860	0.820	3.12	7.29	6.16	2.27	1.38	1.44	1.62	2.63	2.27	2.58	1984
MEAN	1.93	1.51	1.33	1.81	6.41	6.89	3.33	3.65	4.36	5.09	4.38 R	2.80 R	3.41	MEAN

R - REVISED SINCE JAN 1980

LOCATION - LAT 55 55 50 N DRAINAGE AREA, 898 km^2
LONG 98 53 10 W NATURAL FLOW

FOOTPRINT RIVER ABOVE FOOTPRINT LAKE - STATION NO. 05TF002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	---	---	---	1977
1978	11.4 AT 15:00 CST ON OCT 11	11.1 ON OCT 11	0.687 ON MAR 17	138 000	1978
1979	8.19 AT 12:12 CST ON JUN 7	8.13 ON JUN 7	3.26 ON SEP 15	103 000	1979
1980	---	11.7 E ON OCT 22	0.788E ON AUG 21	138 000	1980
1981	13.0 AT 21:00 CST ON MAY 21	11.6 ON MAY 20	0.258 ON OCT 3 *	87 700R	1981
1982	13.0 AT 23:59 CST ON JUN 10	12.6 ON JUN 11	0.892 ON APR 4	153 000	1982
1983	13.7 AT 18:30 CST ON JUN 3 *	13.4 ON JUN 3 *	---	---	1983
1984	6.41 AT 14:40 CST ON MAY 24	6.26 ON MAY 25	0.6088 ON APR 6	81 800	1984
				111 000R	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED R - REVISED SINCE JAN 1980

FORK RIVER NEAR ETHELBERT - STATION NO. 05LJ016

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	1.58	4.21 R	7.61 R	1.25 R	0.750	2.44	2.44	---	---	---	1954
1955	---	---	---	---	3.32	3.47	1.67	0.163	0	0	---	---	---	1955
1956	---	---	0.026	0.675	3.02	1.43	0.774	0.031	0.378	0.186	---	---	0.655	1956
1957	---	---	0.026	2.83	1.89	0.643	0.019	0	0.001	0	---	---	0.658	1957
1958	---	---	0.062	0.345	0.084	0.033	0.142	0.085	0.286	0.084	---	---	0.140	1958
1959	---	---	0.169	0.888	0.700	2.04	0.808	0.015	0.030	0.417	---	---	0.578	1959
1960	---	---	0	3.77	3.27	0.987	0.093	0.185	0.041	0	---	---	1.03	1960
1961	---	---	0.008	0.023	0.026	0.007	0	0	0	0	---	---	0.008	1961
1962	---	---	0	0.286	0.041	0.250	0.093	0	0	0	---	---	0.064	1962
1963	---	---	0.418	0.774	1.30	1.04	0.067	0	0	0	---	---	0.448	1963
1964	---	---	0	0.204	0.051	0.004	0	0	0	0	---	---	0.148	1964
1965	---	---	0	0.348	1.82	0.758	0.058	0.318	0.701	0.328	---	---	0.503	1965
1966	---	---	0.133	2.75	2.13	1.85	0.458	0.028	0	0	---	---	0.668	1966
1967	---	---	0	0.824	2.67	0.306	0.010	0.001	0	0	---	---	0.469	1967
1968	---	---	0.063	0.086	0.005	0.033	0.007	0.111	0.064	0.011	---	---	0.050	1968
1969	---	---	0	1.88	0.892	0.828	1.10	0.187	0.033	0.888	---	---	0.820	1969
1970	---	---	0.005	3.38	5.41	2.38	2.10	0.444	0.080	0.335	---	---	1.78	1970
1971	---	---	0.024	3.88	0.587	1.48	0.182	0.022	0	0.058	---	---	0.768	1971
1972	---	---	0	2.34	1.81	0.113	0.002	0	0	0	---	---	0.505	1972
1973	---	---	0.004	0.036	0.086	0.777	0.070	0.005	0.627	0.328	---	---	0.238	1973
1974	---	---	0	4.73	7.73	1.80	0.036	0	0.018	0.188	---	---	1.77	1974
1975	---	---	0	3.08	3.84	3.38	0.183	0.011	0.575	0.417	---	---	1.38	1975
1976	---	---	0.013	4.88	0.884	7.70	0.617	0.011	0.001	0	---	---	1.74	1976
1977	---	---	0	0.080	0.248	0.023	0.003	0.003	0.038	0.107	---	---	0.064	1977
1978	---	---	0.036	0.827	0.522	0.187	0.011	0.001	0.027	0.028	---	---	0.187	1978
1979	---	---	0	2.86	4.40	1.46	0.072	0.006	0	0.007	---	---	1.10	1979
1980	---	---	0	1.21	0.147	0.002	0.002	0.148	0.022	0.022	---	---	0.181	1980
1981	---	---	0.013	0.080	0.178	0.384	0.318	0.313	0.078	0.134	---	---	0.171	1981
1982	---	---	0.081	0.618	0.330	0.072	0.892	0.088	0.011	0.138	---	---	0.279	1982
1983	---	---	0	2.71	3.28	1.83	1.51	0.138	0.001	0.020	---	---	1.14	1983
1984	---	---	0.178	0.471	1.23	4.77	0.628	0.038	0.127	0.823	---	---	1.02	1984
MEAN	---	---	0.044	1.88	1.85 R	1.43 R	0.388R	0.080	0.178	0.214	---	---	0.851	MEAN

LOCATION - LAT 51 31 20 N
LONG 100 22 10 W
DRAINAGE AREA, 258 km²
REGULATED

R - REVISED SINCE JAN 1980

FORK RIVER NEAR ETHELBERT - STATION NO. 05LJ016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	17.2 R ON JUN 2	0B ON APR 1 *	---	1954
1955	---	10.5 ON MAY 4	0 ON JUL 23	---	1955
1956	---	7.26 ON MAY 5	0 ON AUG 4	20 200	1956
1957	---	9.40 ON APR 25	0 ON JUL 8	13 900	1957
1958	---	1.13 ON MAR 31	0 ON MAR 1	2 950	1958
1959	---	7.84 ON JUN 26	0 ON MAR 1	12 300	1959
1960	---	13.2 ON APR 11	0B ON MAR 1	21 600	1960
1961	---	0.8428 ON APR 20	0B ON MAR 1	200	1961
1962	---	4.11 ON APR 18	0 ON MAR 1	1 770	1962
1963	---	4.02 ON APR 8	0 ON MAR 1	8 500	1963
1964	---	3.30 ON MAY 8	0 ON MAR 1	3 090	1964
1965	---	2.74 ON AUG 2	0 ON MAR 1	10 800	1965
1966	---	12.8 E ON APR 1	0B ON MAR 1	16 800	1966
1967	---	8.78 ON APR 27	0B ON MAR 1	10 400	1967
1968	---	0.815 ON MAR 27	0E ON MAR 1	1 240	1968
1969	---	7.83 ON APR 13	0B ON MAR 1	13 100	1969
1970	---	14.6 ON APR 28	0 ON SEP 11	27 000	1970
1971	---	16.6 E ON APR 11	0 ON AUG 27	18 300	1971
1972	---	8.55 E ON APR 18	0B ON MAR 1	10 700	1972
1973	---	1.82 ON JUN 29	0B ON MAR 1	4 880	1973
1974	---	43.6 E ON APR 19	0B ON MAR 1	37 800	1974
1975	---	17.6 ON JUN 19	0B ON MAR 1	29 200	1975
1976	---	84.7 ON JUN 13 *	0 ON AUG 24	28 700	1976
1977	---	0.874 ON MAY 5	0B ON MAR 1	1 200	1977
1978	---	0.860 ON MAY 5	0 ON AUG 8	3 630	1978
1979	---	17.8 E ON APR 23	0B ON MAR 1	23 200	1979
1980	---	3.86 E ON APR 5	0B ON MAR 1	4 040	1980
1981	---	2.88 ON JUL 2	0B ON MAR 1	3 830	1981
1982	---	8.14 ON JUL 17	0B ON MAR 1	8 810	1982
1983	---	18.2 E ON APR 26	0B ON MAR 1	24 200	1983
1984	84.8 AT 11:04 CST ON JUN 23 *	41.0 ON JUN 23	0B ON MAR 1	31 700	1984
				13 600	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

GAINSBOROUGH CREEK NEAR LYLETON - STATION NO. 08NF007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	0.018	5.54	0.787	0.246	0.103	0.031	0	0	0	---	0.826	1956
1957	---	---	0.238	0.356	0.143	0.101	0.015	0	0.008	0	---	---	0.106	1957
1958	---	---	0.606	1.83	0.074	0.002	0	0	0	0	---	---	0.273	1958
1959	---	---	0.073	0.032	0	0	0	0	0	0	---	---	0.013	1959
1960	---	---	0.062	1.90	0.126	0.035	0.001	0	0	0	---	---	0.257	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0	0	0	0	0	0	0	---	---	0	1962
1963	---	---	0	0	0	0	0	0	0	0	---	---	0	1963
1964	---	---	0	1.87	1.86	0.135	0.105	0.018	0.013	0.037	---	---	0.502	1964
1965	---	---	0	1.19	0.281	0.185	0.072	0.018	0.040	0.059	---	---	0.229	1965
1966	---	---	0.434	1.88	0.441	0.282	0.097	0.005	0.031	0.005	---	---	0.391	1966
1967	---	---	0.027	0.111	0.103	0.012	0	0	0	0	---	---	0.032	1967
1968	---	---	0.018	0.018	0.007	0	0.001	0.004	0.013	0.012	---	---	0.009	1968
1969	---	---	0	11.8	0.473	0.043	1.04	0.258	0.172	0.126	---	---	1.72	1969
1970	---	---	0	3.13	4.37	0.258	0.088	0.051	0.034	0.002	---	---	0.880	1970
1971	---	---	0.011	0.130	0.067	0.524	0.282	0.008	0.088	0.013	---	---	0.128	1971
1972	---	---	2.23	3.85	0.412	0.252	0.013	0.001	0.147	0.006	---	---	0.721	1972
1973	---	---	0.031	0.025	0.048	0.170	0.018	0.001	0.008	0.015	---	---	0.039	1973
1974	---	---	0	11.5	2.21	0.823	0.225	0.043	0	0.029	---	---	1.85	1974
1975	---	---	0.001	5.82	5.13	2.13	0.383	0.023	1.44	1.51	---	---	2.01	1975
1976	---	---	0.438	22.1	1.41	0.484	0.086	0.005	0.102	0.074	---	---	4.28	1976
1977	---	---	0.030	0.013	0.013	0	0	0	0	0	---	---	0.007	1977
1978	---	---	0.003	0.082	0.014	0.003	0	0	0	0	---	---	0.010	1978
1979	---	---	0	2.20	1.48	0.150	0.012	0	0	0	---	---	0.476	1979
1980	---	---	0	0.028	0	0	0	0	0	0	---	---	0.003	1980
1981	---	0.001	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	1.42	0.130	0.001	0	0	0	0	---	---	0.181	1982
1983	---	---	0.008	2.70	0.788	0.078	0.072	0	0	0	---	---	0.447	1983
1984	---	---	0.018	0.044	0.080	0.002	0	0	0	0	---	---	0.014	1984
MEAN	---	0.001	0.162	3.04	0.704	0.208	0.088	0.018	0.072	0.085	0	---	0.535	MEAN

LOCATION - LAT 49 05 45 N DRAINAGE AREA, 1 130 km²
LONG 101 11 00 W REGULATED SINCE 1962

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.005 AND 0 m³/s OCCURRED IN FEBRUARY

GAINSBOROUGH CREEK NEAR LYLETON - STATION NO. 08NF007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1956	---	20.3 ON APR 18	0 B ON MAR 1 *	17 800	1956
1957	---	0.6788 ON MAR 28	0 B ON MAR 1	2 250	1957
1958	---	9.67 ON APR 4	0 B ON MAR 1	5 750	1958
1959	---	1.02 B ON MAR 27	0 B ON MAR 1	278	1959
1960	---	8.98 ON APR 8	0 B ON MAR 1	5 440	1960
1961	---	0 ON MAR 1	0 ON MAR 1	0	1961
1962	---	0 ON MAR 1	0 ON MAR 1	0	1962
1963	---	0 ON MAR 1	0 ON MAR 1	0	1963
1964	13.0 AT 02:00 CST ON MAY 7	10.3 ON MAY 8	0 ON MAR 1	10 800	1964
1965	7.08 AT 14:15 CST ON APR 17	4.81 ON APR 17	0 B ON MAR 1	4 850	1965
1966	---	5.19 B ON APR 8	0 B ON MAR 1	8 270	1966
1967	---	0.311A ON MAY 11	0 B ON MAR 1	888	1967
1968	---	0.0579 ON MAR 20	0 B ON MAR 1	188	1968
1969	48.2 AT 19:40 CST ON APR 18	43.8 ON APR 18	0 B ON MAR 1	38 500	1969
1970	18.6 AT 11:15 CST ON MAY 1	18.0 ON MAY 1	0 B ON MAR 1	21 000	1970
1971	---	2.27 ON JUN 14	0 B ON MAR 1	2 880	1971
1972	---	7.11 B ON MAR 27	0 B ON MAR 1	15 300	1972
1973	2.82 AT 03:53 CST ON JUN 3	1.38 ON JUN 3	0 B ON MAR 1	825	1973
1974	83.8 AT 17:00 CST ON APR 17	48.2 A ON APR 17	0 B ON MAR 1	38 200	1974
1975	28.4 AT 10:17 CST ON APR 30	26.3 ON APR 30	0.0018 ON MAR 1	42 600	1975
1976	94.3 AT 00:06 CST ON APR 12 *	87.2 ON APR 12 *	0.001 ON SEP 8	90 200	1976
1977	---	0.1068 ON MAR 10	0 B ON MAR 1	153	1977
1978	---	0.1328 ON APR 8	0 B ON MAR 1	212	1978
1979	18.4 AT 03:34 CST ON APR 27	12.6 ON APR 27	0 B ON MAR 1	10 100	1979
1980	---	0.0308 ON APR 18	0 B ON MAR 1	72.4	1980
1981	---	0.0028 ON MAR 1	0 B ON MAR 8	0.82	1981
1982	4.83 AT 19:58 CST ON APR 15	4.36 ON APR 21	0 B ON MAR 1	4 040	1982
1983	8.03 AT 14:51 CST ON APR 24	6.69 ON APR 25	0 B ON MAR 20	9 480	1983
1984	0.218 AT 20:18 CST ON APR 13	0.186 ON APR 14	0 B ON MAR 1	303	1984
				11 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GAINSBOROUGH CREEK NEAR MELITA - STATION NO. 05NF003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1935	---	---	---	---	---	---	---	---	---	0.016	---	---	---	1935
1936	---	---	---	---	0.287	0.020	---	---	---	---	---	---	---	1936
1943	---	---	0	4.86	0.377	0.480	0.141	0.004	0	0	---	---	0.736	1943
1944	---	---	0	0.006	0.003	0.202	0.224	0.028	0.025	0.007	---	---	0.092	1944
1945	---	---	0.081	0.128	0.020	0.068	0.072	0.008	0	0	---	---	0.047	1945
1946	---	---	0.722	2.83	0.100	0.028	0.008	0	0	0	---	---	0.455	1946
1947	---	---	0	2.15	0.758	1.03	1.40	0.050	0.001	0	---	---	0.659	1947
1948	---	---	0	8.18	3.38	0.329	0.047	0.077	0.012	0.007	---	---	1.48	1948
1949	---	---	0	5.05	0.325	1.84	0.135	0.047	0.006	0	---	---	0.884	1949
1950	---	---	0.021	3.91	2.70	0.801	1.17	3.28	0.716	0.181	---	---	1.87	1950
1951	---	---	0	8.85	7.38	0.335	0.084	0.035	0.010	0	---	---	2.05	1951
1952	---	---	0.027	1.80	0.077	0	0.018	0	0	0	---	---	0.211	1952
1953	---	---	0.041	0.728	0.183	0.071	0.002	0.013	0	0	---	---	0.141	1953
1954	---	---	0	0.026	0	0.703	2.21	0.170	0.122	0.140	0.078	---	0.433	1954
1955	---	---	0.015	7.49	2.32	0.389	0.038	0.027	0	0	---	---	1.27	1955
MEAN	---	---	0.071	3.52	1.26	0.421	0.432	0.268	0.068	0.024	0.078	---	0.770	MEAN

LOCATION - LAT 49 09 50 N DRAINAGE AREA, 1 480 km²
LONG 101 02 46 W NATURAL FLOW

REMARKS - HIGHER MAXIMUM DISCHARGES ARE KNOWN TO HAVE OCCURRED OUTSIDE THE STANDARD PERIOD IN 1945

GAINSBOROUGH CREEK NEAR MELITA - STATION NO. 05NF003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1935	---	---	---	---	1935
1936	---	---	---	---	1936
1943	---	20.1 ON APR 8	0B ON MAR 1 *	15 600	1943
1944	---	0.934 ON JUL 1	0B ON MAR 1	1 310	1944
1945	---	0.812E ON MAR 28	0E ON MAR 1	882	1945
1946	---	14.0 B ON APR 2	0B ON MAR 1	5 620	1946
1947	---	12.0 E ON JUN 28	0B ON MAR 1	14 200	1947
1948	---	36.8 ON APR 25 *	0B ON MAR 1	31 500	1948
1949	---	36.2 ON APR 12	0B ON MAR 1	18 700	1949
1950	---	11.2 ON APR 21	0B ON MAR 1	33 100	1950
1951	---	26.6 ON MAY 6	0B ON MAR 1	43 300	1951
1952	---	7.45 ON APR 10	0B ON MAR 1	4 480	1952
1953	---	3.31 ON APR 8	0B ON MAR 1	2 840	1953
1954	---	3.43 ON JUL 10	0B ON MAR 1	6 850	1954
1955	---	27.2 B ON APR 8	0B ON MAR 1	26 800	1955
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		18 300	MEAN

GARLAND RIVER NEAR DUCK RIVER - STATION NO. 05LE006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.057	0.435	5.45	1.29	0.078	0.044	0	0	---	---	0.922	1967
1968	---	---	0.383	1.29	0.840	0.615	0.088	0.841	0.085	0.145	---	---	0.507	1968
1969	---	---	0.104	3.68	1.07	0.782	2.17	0.414	0.283	1.83	---	---	1.27	1969
1970	---	---	0.207	4.38	7.40	3.26	2.50	1.01	0.208	0.595	---	---	2.44	1970
1971	---	---	0.221	7.00	1.47	3.53	0.524	0.282	0.095	0.418	---	---	1.85	1971
1972	---	---	0.088	4.23	2.91	0.480	0.212	0.051	0	0.083	---	---	0.887	1972
1973	---	---	0.028	0.685	0.830	2.06	0.571	0.031	0.283	0.242	---	---	0.588	1973
1974	---	---	0.020	6.76	10.1	2.29	0.218	0.105	0.456	0.421	---	---	2.56	1974
1975	---	---	0.125	3.03	4.47	3.44	0.273	0.065	0.744	0.634	---	---	1.81	1975
1976	---	---	0.123	7.41	1.56	5.86	0.770	0.071	0.018	0.062	---	---	1.86	1976
1977	---	---	0.071	0.868	0.927	0.144	0.103	0.108	0.701	0.617	---	---	0.448	1977
1978	---	---	0.074	1.62	1.06	0.803	0.108	0.001	0.100	0.173	---	---	0.511	1978
1979	---	---	0.047	4.24	8.52	3.65	0.108	0.008	0.020	0.107	---	---	2.22	1979
1980	---	---	0.003	1.55	0.349	0.010	0.043	0.881	0.091	0.145	---	---	0.395	1980
1981	---	---	0.069	0.807	0.780	1.40	0.228	0.084	0.018	0.243	---	---	0.449	1981
1982	---	---	0	1.06	0.842	0.488	2.83	0.457	0.004	0.770	---	---	0.799	1982
1983	---	---	0.034	5.19	8.38	1.89	1.31	0.095	0	0.078	---	---	1.85	1983
1984	---	---	0.238	1.12	1.92	0.81	0.462	0.003	0.088	0.361	---	---	1.33	1984
MEAN	---	---	0.103	3.10	3.20	2.15	0.660	0.268	0.172	0.378	---	---	1.26	MEAN

LOCATION - LAT 51 51 05 N DRAINAGE AREA, 436 km²
LONG 100 14 58 W NATURAL FLOW

GARLAND RIVER NEAR DUCK RIVER - STATION NO. 05LG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	11.4 AT 13:45 CST ON MAY 10	11.3 ON MAY 10	0 ON JUL 25 *	18 800	1967
1968	3.82 AT 09:30 CST ON AUG 22	3.71 ON AUG 22	0.001 ON SEP 17	10 700	1968
1969	---	10.2 ON APR 18	0.001 ON SEP 4	27 000	1969
1970	---	14.3 ON APR 26	0.042 ON SEP 20	51 700	1970
1971	21.6 AT 18:00 CST ON APR 11	18.1 A ON APR 11	0 ON SEP 23	35 000	1971
1972	13.7 B AT 10:10 CST ON APR 18	12.1 B ON APR 18	0 ON AUG 31	21 100	1972
1973	6.17 AT 00:01 CST ON JUN 23	5.85 ON JUN 22	0 B ON MAR 1	12 400	1973
1974	---	32.6 E ON APR 21	0.014 ON AUG 10	53 800	1974
1975	10.1 AT 14:57 CST ON MAY 1	9.91 ON MAY 1	0 ON AUG 17	34 200	1975
1976	20.0 AT 11:15 CST ON APR 9	18.7 ON APR 9	0 ON OCT 8	41 300	1976
1977	3.43 AT 11:15 CST ON SEP 26	3.37 ON SEP 26	0.0148 ON MAR 1	9 420	1977
1978	3.88 AT 09:30 CST ON APR 19	3.89 ON APR 27	0 ON AUG 5	10 600	1978
1979	18.1 AT 00:39 CST ON APR 25	17.1 ON APR 24	0 ON AUG 15	47 000	1979
1980	3.03 AT 21:00 CST ON APR 15	2.98 ON APR 15	0 B ON MAR 1	8 380	1980
1981	3.51 AT 02:26 CST ON JUN 15	3.34 ON JUN 15	0 B ON MAR 1	9 600	1981
1982	11.2 AT 21:05 CST ON JUL 20	10.8 ON JUL 20	0 B ON MAR 1	18 800	1982
1983	30.0 AT 14:00 CST ON APR 25	28.5 A ON APR 25	0 ON SEP 1	38 200	1983
1984	35.5 AT 09:25 CST ON JUN 25 *	34.0 ON JUN 25 *	0 ON AUG 10	38 200	1984
				36 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GARLAND RIVER NEAR GARLAND - STATION NO. 05LG003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	0.188	0.111	0.070	0.144	0.091	0.236	0.185	---	---	---	1958
1959	---	---	0.170	0.469	0.892	1.22	0.182	0.041	0.178	0.408	---	---	0.382	1959
1960	---	---	0.026	0.617	2.05	0.624	0.075	0.037	0.008	0.022	---	---	0.457	1960
1961	---	---	0.003	0.100	0.131	0.008	0.005	0	0	0.026	---	---	0.034	1961
1962	---	---	0.026	0.645	0.138	0.088	0.033	0.036	0.062	0.074	0.071	---	0.137	1962
1963	---	---	0.048	1.00 R	0.888R	0.527	0.105	0.018	0.036	0.065	---	---	0.311R	1963
1964	---	---	0.014	0.732R	0.488R	0.041	0.011	0.018	0.031	0.048	---	---	0.189R	1964
1965	---	---	0.004	0.778R	1.10 R	0.362	0.254R	0.232	0.821R	0.295	---	---	0.476R	1965
1966	---	---	0.104	1.00	1.32	1.02	0.181	0.133	0.018	0.065	---	---	0.476	1966
1967	---	---	0.043	0.383	1.87	0.407	0.068	0.120	0.085	0.072	---	---	0.380	1967
1968	---	---	0.235	0.475	0.348	0.223	0.208	0.308	0.104	0.110	---	---	0.281	1968
1969	---	---	0.071	1.21	0.613	0.956	1.39	0.108	0.185	0.860	---	---	0.673	1969
1970	---	---	0.058	0.884	2.84	1.67	1.10	0.244	0.218	0.888	---	---	0.924	1970
1971	---	---	0.052	1.13	0.361	0.782	0.214	0.058	0.029	0.255	---	---	0.356	1971
1972	---	---	0.088	1.32	0.973	0.126	0.088	0.031	0.016	0.053	---	---	0.316	1972
1973	---	---	0.058	0.278	0.432	1.05	0.241	0.037	0.316	0.321	---	---	0.339	1973
1974	---	---	0.055	1.03	2.87	0.708	0.108	0.081	0.306	0.226	---	---	0.783	1974
1975	---	---	0.059	1.30	1.70	1.28	0.082	0.070	0.368	0.295	---	---	0.843	1975
1976	---	---	0.087	2.00	0.482	1.25	0.108	0.044	0.028	0.080	---	---	0.502	1976
1977	---	---	0.048	0.354	0.417	0.087	0.075	0.072	0.471	0.188	---	---	0.214	1977
MEAN	---	---	0.084	0.837R	0.978R	0.617	0.230R	0.088	0.177R	0.218	0.071	---	0.413	MEAN

LOCATION - LAT 51 40 30 N
LONG 100 29 30 W
DRAINAGE AREA, 103 km^2
NATURAL FLOW

R - REVISED SINCE JAN 1980

GARLAND RIVER NEAR GARLAND - STATION NO. 05LG003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	1.13 AT 09:00 CST ON AUG 30	1.08 ON AUG 30	0 E ON AUG 4 *	---	1958
1959	0.06 AT 19:00 CST ON JUN 26	0.10 ON JUN 26	0.026 ON JUL 26	0 280	1959
1960	0.77 AT 08:00 CST ON MAY 27	0.57 ON MAY 27	0 B ON MAR 1	0 670	1960
1961	---	0.272A ON APR 22	0 B ON MAR 2	717	1961
1962	7.46 AT 04:00 CST ON APR 21	3.60 ON APR 20	0 B ON MAR 1	2 810	1962
1963	7.05RB AT 11:00 CST ON APR 8	5.01 RB ON APR 8	0 B ON MAR 1	0 580R	1963
1964	3.05R AT 10:10 CST ON MAY 8	2.06 R ON MAY 8	0.003 ON JUL 27	3 580R	1964
1965	6.40R AT 01:00 CST ON MAY 7	5.02 R ON MAY 7	0.0035 ON MAR 1	10 100R	1965
1966	8.75 AT 03:30 CST ON MAY 5	8.27 ON MAY 5	0.003 ON SEP 22	10 100	1966
1967	8.24B AT 08:00 CST ON MAY 7	7.14 B ON MAY 7	0 ON SEP 8	8 030	1967
1968	---	1.46 B ON MAR 28	0.024 ON SEP 13	5 310	1968
1969	2.78B AT 08:43 CST ON APR 13	2.60 B ON APR 13	0 ON SEP 14	14 200	1969
1970	8.07 AT 07:11 CST ON MAY 7	6.84 ON MAY 7	0.004 ON AUG 22	18 800	1970
1971	5.75 AT 17:30 CST ON JUN 5	4.13 ON JUN 5	0.014 ON AUG 30	7 570	1971
1972	6.13 AT 05:30 CST ON APR 23	4.67 ON APR 23	0 ON SEP 3	8 730	1972
1973	7.76 AT 03:37 CST ON JUN 20	6.62 ON JUN 20	0 ON AUG 18	7 179	1973
1974	11.8 AT 01:26 CST ON MAY 22 *	10.3 ON MAY 22 *	0.003 ON AUG 11	18 800	1974
1975	8.88 AT 23:07 CST ON APR 26	8.36 ON APR 26	0.003 ON JUL 29	13 800	1975
1976	8.81 AT 07:30 CST ON APR 9	7.43 ON APR 9	0.014 ON AUG 24	10 800	1976
1977	3.86 AT 10:52 CST ON SEP 26	3.34 ON SEP 26	0.021 ON JUL 4	4 840	1977
				8 740R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

GARLAND RIVER NEAR PULP RIVER - STATION NO. 05LG002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	3.78	5.30	10.3	3.32	0.314	1.84	3.12	0.630	---	---	1954
1955	---	---	---	5.26	5.21	3.72	0.311	0.037	0.017	0.145	---	---	---	1955
1956	---	---	0	0.787	5.19	2.22	3.02	0.277	0.380	0.461	---	---	1.43	1956
1957	---	---	0	4.00	3.27	0.397	0	0	0	0	---	---	0.952	1957
1958	---	---	0.100	0.413	0.306	0.104	0.226	0.101	0.248	0.238	---	---	0.217	1958
1959	---	---	---	1.30	1.08	5.88	2.51	0.137	0.884	3.21	---	---	---	1959
1960	---	---	0	5.68	7.81	3.98	0.256	0.074	0	0	---	---	2.28	1960
1961	---	---	0.014	0.339	0.783	0.138	0	0	0	0	---	---	0.159	1961
1963	---	---	0.088	1.26	1.70	1.78	0.507	0.038	0	0.008	---	---	0.573	1963
1964	---	---	0.057	0.731	1.18	0.188	0.008	0	0	0.032	---	---	0.271	1964
1965	---	---	0	1.38	2.80	1.02	0.275	0.458	1.33	0.504	---	---	0.889	1965
1966	---	---	0.050	4.48	3.89	2.38	0.608	0.138	0.082	0.033	---	---	1.44	1966
MEAN	---	---	0.035	2.47	3.20	2.78	0.854	0.131	0.398	0.477	0.630	---	0.928	MEAN

LOCATION - LAT 51 48 20 N, LONG 100 18 18 W DRAINAGE AREA, 401 km² NATURAL FLOW

GARLAND RIVER NEAR PULP RIVER - STATION NO. 05LG002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1954	---	10.5 ON MAY 30	0B ON APR 1 *	---	1954
1955	---	15.0 ON MAY 8	0 ON AUG 21	---	1955
1956	---	7.22 ON MAY 11	0B ON MAR 1	30 000	1956
1957	---	13.3 ON APR 28	0B ON MAR 1	20 200	1957
1958	---	1.13 ON APR 4	0B ON MAR 1	4 550	1958
1959	---	20.8 ON JUN 30 *	---	---	1959
1960	---	18.2 ON MAY 30	0B ON MAR 1	47 600	1960
1961	---	0.572 ON MAY 21	0B ON MAR 1	3 370	1961
1963	---	7.42 ON APR 11	0B ON MAR 1	14 300	1963
1964	---	3.77 ON MAY 10	0 ON JUL 15	5 730	1964
1965	---	7.33 ON MAY 9	0B ON MAR 1	20 800	1965
1966	---	10.2 E ON APR 8	0 ON SEP 24	30 600	1966
				19 700	MEAN

B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GAUER RIVER BELOW THORSTEINSON LAKE - STATION NO. 05FA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	23.8	17.8	13.4	10.3	---	---	70.3	42.8	37.6	50.1	40.8	28.1	---	1979
1980	14.3	12.8	12.2	15.1	25.2	43.8	70.1	108	159	105	74.8	38.8	58.8	1980
1981	21.0	17.2	15.2	14.0	84.8	88.4	38.2	20.8	13.1	10.8	9.81	8.03	35.3	1981
1982	8.62	8.03	8.05	9.88	78.3	115	70.8	---	---	---	53.0	32.4	---	1982
1983*	24.1	20.0	16.8	14.2	38.3	109	88.1	84.4	79.7	57.3	52.1	35.7	51.8	1983
1984	28.1	20.8	14.1	38.3	61.8	76.3	44.7	24.1	18.8	18.8	11.4	11.2	32.8	1984
MEAN	20.0	16.2	13.8	17.1	57.8	82.8	60.8	51.8	61.8	54.0	41.8	28.7	41.8	MEAN

LOCATION - LAT 57 21 00 N, LONG 97 35 52 W DRAINAGE AREA, 5 880 km² NATURAL FLOW

GAUER RIVER BELOW THORSTEINSON LAKE - STATION NO. 05FA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1979	104 AT 23:30 CST ON JUN 28	98.0 ON JUN 30	8.60B ON APR 18	---	1979
1980	207 AT 23:14 CST ON SEP 8 *	201 ON SEP 7 *	11.8 B ON APR 18	1 750 000	1980
1981	93.1 AT 21:00 CST ON MAY 18	93.0 ON MAY 14	8.42 ON OCT 12 *	758 000	1981
1982	128 AT 04:04 CST ON JUN 9	128 ON JUN 10	8.60B ON JAN 1	---	1982
1983	122 AT 00:10 CST ON JUN 4	122 ON JUN 4	12.5 B ON MAY 11	1 830 000	1983
1984	87.3 AT 19:40 CST ON MAY 29	87.3 ON MAY 30	8.67B ON APR 18	1 030 000	1984
				1 310 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GIMBY CREEK NEAR CARTWRIGHT - STATION NO. 05DA015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	---	---	0	5.33	1.78	0.104	---	---	---	---	---	---	1.78	1979
1980	---	---	0	0.355	0.003	0	---	---	---	---	---	---	0.088	1980
1981	---	0.235	0.071	0.029	0.026	0.030	---	---	---	---	---	---	0.030	1981
1982	---	---	0.083	2.90	0.295	0.185	---	---	---	---	---	---	0.849	1982
1983	---	---	0.190	1.78	0.253	0.090	0.103	---	---	---	---	---	0.572	1983
1984	---	---	0.243	0.249	0.304	0.015	---	---	---	---	---	---	0.202	1984
MEAN	---	0.235	0.098	1.77	0.445	0.087	0.103	---	---	---	---	---	0.590	MEAN

LOCATION - LAT 49 04 40 N DRAINAGE AREA, 320 km²
LONG 99 21 00 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.10 AND 0 M3/ OCCURRED IN FEBRUARY

GIMBY CREEK NEAR CARTWRIGHT - STATION NO. 05DA015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1979	---	43.4 B ON APR 23 *	0 B ON MAR 1 *	19 900	1979
1980	5.66 AT 17:20 CST ON APR 5	3.62 ON APR 5	0 B ON MAR 1	928	1980
1981	---	0.2100 ON MAR 20	0.011A ON APR 20	415	1981
1982	11.2 B AT 10:10 CST ON APR 13 *	10.4 B ON APR 13	0 B ON MAR 1	8 950	1982
1983	---	4.65 B ON APR 3	0 B ON MAR 1	5 030	1983
1984	---	1.46 B ON MAR 26	0 B ON MAR 1	2 130	1984
				8 230	MEAN

A - MANUAL GAUGE B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)

GLENELLA DRAIN NEAR GLENELLA - STATION NO. 05LL026

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	7.78	6.83	0.898	0.041	0	0	0	---	---	1.88	1974
1975	---	---	0	1.41	1.41	0.782	0.058	3.18	13.3	3.83	---	---	2.80	1975
1976	---	---	0.113	20.8	1.80	0.514	0.168	0	0	0	---	---	2.84	1976
1977	---	---	0.002	0.208	0.322	0.053	0.089	0	0.220	0.117	---	---	0.111	1977
1978	---	---	0	1.48	0.880	0.137	0.018	0	0.031	0.040	---	---	0.283	1978
1979	---	---	0	7.88	10.1	1.07	0.073	0.001	0	0	---	---	2.35	1979
1980	---	---	0	0.880	0.048	0	0	1.28	0.880	0.318	---	---	0.381	1980
1981	---	---	0.203	0.278	0.295	0.384	0.101	0.047	0.008	0.083	---	---	0.183	1981
1982	---	---	0.008	3.18	0.858	0.228	1.28	0.134	0	0.104	---	---	0.727	1982
1983	---	---	0.001	5.81	2.11	0.588	0.204	0	0	0	---	---	1.08	1983
1984	---	---	0.082	0.387	0.492	0.783	0.108	0	0	0.139	---	---	0.242	1984
MEAN	---	---	0.044	4.48	2.23	0.478	0.188	0.330	1.31	0.394	---	---	1.17	MEAN

LOCATION - LAT 50 33 37 N
LONG 98 08 23 W NATURAL FLOW

GLENELLA DRAIN NEAR GLENELLA - STATION NO. 05LL026

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1974	---	31.7 ON APR 21	00 ON MAR 1 *	38 800	1974
1975	48.8 AT 10:25 CST ON SEP 22 *	43.8 ON SEP 22	00 ON MAR 1	59 300	1975
1976	---	51.5 ON APR 9 *	0 ON JUL 31	60 100	1976
1977	---	1.87 ON SEP 26	00 ON MAR 1	2 240	1977
1978	---	4.13 ON APR 25	00 ON MAR 1	6 210	1978
1979	---	33.7 B ON APR 26	00 ON MAR 1	49 700	1979
1980	---	9.78 ON AUG 21	00 ON MAR 1	5 050	1980
1981	0.867 AT 00:00 CST ON APR 2	0.8198 ON MAR 31	00 ON MAR 1	3 880	1981
1982	---	8.62 B ON APR 18	00 ON MAR 1	15 400	1982
1983	13.4 B AT 10:40 CST ON APR 10	11.1 ON APR 21	00 ON MAR 1	22 200	1983
1984	8.42 AT 10:21 CST ON JUN 23	4.62 ON JUN 24	00 ON MAR 1	5 130	1984
				24 700	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GODS RIVER AT OUTLET OF GODS LAKE - STATION NO. 04AC008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1933	---	---	91.5	94.4	88.7	88.4	111	114	118	115	118	121	---	1933
1934	123	127	129	110	119	183	314	338	303	287	243	227	206	1934
1935	202	177	155	143	144	161	162	122	118	111	---	---	---	1935
1936	---	---	---	117	118	183	204	213	204	178	161	150	---	1936
1937	140	138	118	106	132	203	268	297	288	242	226	210	187	1937
1938	187	148	155	155	184	201	250	271	247	210	183	141	198	1938
1939	126	116	104	91.5	94.4	123	183	221	213	181	161	158	148	1939
1940	152	140	128	118	120	151	158	153	138	118	106	101	132	1940
1941	95.7	93.5	91.4	95.5	125	173	187	201	178	169	141	138	141	1941
1942	136	134	133	125	114	127	148	181	195	218	214	200	159	1942
1943	163	176	160	148	158	176	192	187	180	174	171	166	172	1943
1944	158	144	128	117	114	110	111	117	117	113	116	116	122	1944
1947	---	---	---	---	---	---	---	---	---	211	281	253	---	1947
1948	222	194	166	162	141	128	125	118	99.0	88.7	76.1	73.8	122	1948
1949	71.8	70.3	88.8	87.8	72.0	78.2	84.5	103	115	167	248	302	122	1949
1950	267	244	208	179	184	236	284	307	295	264	212	201	241	1950
1951	189	171	155	142	157	178	196	206	224	264	276	256	202	1951
1952	223	189	164	146	142	169	258	338	367	376	330	320	287	1952
1953	276	233	197	173	169	173	258	284	276	223	198	190	222	1953
1954	173	158	148	135	130	140	164	172	159	143	134	130	148	1954
1955	131	126	121	121	147	196	267	327	319	267	255	233	213	1955
1956	188	177	163	154	151	164	162	178	180	141	143	124	161	1956
1957	117	112	106	106	113	130	160	178	187	180	136	122	133	1957
1958	117	113	107	104	105	114	124	154	154	152	150	147	126	1958
1959	148	148	140	137	161	276	404	410	369	332	309	277	298	1959
1960	242	208	153	147	152	176	198	191	182	143	131	118	168	1960
1961	111	104	97.7	91.3	97.7	103	98.4	94.7	89.4	81.2	80.8	83.9	92.6	1961
1962	97.1	92.8	72.8	83.7	88.5	105	119	122	131	131	125	115	101	1962
1963	103	101	107	113	130	171	210	206	189	174	158	148	151	1963
1964	136	126	118	116	128	148	187	171	163	137	121	116	137	1964
1965	112	107	102	101	114	163	218	237	206	236	224	206	169	1965
1966	161	150	143	132	138	176	237	264	268	228	207	191	193	1966
1967	174	156	133	128	137	234	362	377	324	258	213	186	223	1967
1968	168	147	123	120	124	163	220	261	271	260	245	229	195	1968
1969	210	190	167	149	136	136	138	134	137	159	188	230	168	1969
1970	231	215	193	168	162	178	200	202	189	181	165	197	192	1970
1971	201	188	174	160	175	210	233	228	214	177	167	147	189	1971
1972	136	136	118	103	118	145	180	182	165	130	118	112	132	1972
1973	107	101	96.4	84.7	102	134	178	185	178	178	165	159	145	1973
1974	163	155	144	148	178	199	208	189	187	163	142	139	169	1974
1975	135	125	119	111	118	139	145	159	158	156	155	158	151	1975
1976	173	156	141	126	119	112	109	106	106	89.4	89.6	84.2	119	1976
1977	80.8	78.0	78.1	78.0	80.3	82.5	80.7	77.7	83.3	89.4	89.8	86.3	81.8	1977
1978	86.1	88.4	82.3	81.4	86.1	105	116	122	123	140	161	186	114	1978
1979	187	153	151	143	194	231	269	317	278	244	228	201	212	1979
1980	185	174	162	148	148	145	137	127	117	114	114	116	140	1980
1981	114	109	102	95.2	96.8	102	110	111	108	107	116	128	108	1981
1982	130	128	118	112	120	134	148	162	174	171	164	165	144	1982
1983	162	153	145	123	144	205	247	263	232	204	180 R	158 R	185 R	1983
1984	140	128	119	117	128	138	155	159	141	128	118	108	131	1984
MEAN	157	148	132	123	128	158	189	201	191	182	174 R	166 R	163	MEAN

LOCATION - LAT 54 50 14 N DRAINAGE AREA, 25 900 km²
LONG 94 05 11 W NATURAL FLOW

R - REVISED SINCE JAN 1980

GODS RIVER AT OUTLET OF GODS LAKE - STATION NO. 05AC005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1933	---	---	---	---	1933
1934	---	368 ON AUG 4	108 ON APR 28	6 570 000	1934
1935	---	218 ON JAN 1	109 ON OCT 11	---	1935
1936	---	---	---	---	1936
1937	---	303 ON JUL 28	105 ON APR 23	5 210 000	1937
1938	---	277 ON AUG 6	134 ON DEC 31	5 180 000	1938
1939	---	227 ON AUG 17	88.4 ON APR 28	4 670 000	1939
1940	---	158 ON JUN 23	89.1 ON DEC 30	4 180 000	1940
1941	---	210 ON AUG 4	90.6 ON APR 8	4 440 000	1941
1942	---	223 ON OCT 21	111 ON MAY 18	5 010 000	1942
1943	---	218 ON FEB 26	144 ON APR 20	5 440 000	1943
1944	---	174 ON JUN 14	105 ON JUN 10	3 840 000	1944
1945	---	---	---	---	1945
1946	---	---	---	---	1946
1947	---	238 ON JAN 1	72.6 ON DEC 28	4 170 000	1947
1948	---	306 ON DEC 14	87.1 ON APR 17	3 840 000	1948
1949	---	---	---	---	1949
1950	---	311 E ON AUG 22	106 ON APR 30	7 590 000	1950
1951	---	277 ON NOV 16	137 ON APR 28	6 380 000	1951
1952	---	304 ON SEP 10	143 ON APR 16	6 120 000	1952
1953	---	302 ON JAN 1	101 ON JUN 15	7 000 000	1953
1954	---	161 ON JAN 1	127 ON MAY 21	4 690 000	1954
1955	---	343 ON AUG 10	118 ON APR 3	6 720 000	1955
1956	---	218 ON JAN 1	118 ON DEC 31	5 110 000	1956
1957	---	180 ON AUG 8	108 ON APR 4	4 200 000	1957
1958	---	195 ON AUG 5	103 ON APR 8	4 050 000	1958
1959	---	438 ON JUL 26 *	126 ON MAR 28	5 180 000	1959
1960	---	251 ON JAN 1	115 B ON DEC 30	5 360 000	1960
1961	---	116 B ON JAN 1	88.98 ON DEC 31	2 920 000	1961
1962	137 AT 18:00 CST ON SEP 22	138 ON SEP 22	58.18 ON JAN 5 *	3 180 000	1962
1963	218 AT 18:00 CST ON AUG 6	217 ON AUG 7	100 B ON FEB 2	4 770 000	1963
1964	188 AT 05:35 CST ON JUL 23	176 ON AUG 3	118 B ON DEC 31	4 320 000	1964
1965	---	249 ON AUG 8	101 B ON MAR 21	5 340 000	1965
1966	272 AT 15:30 CST ON AUG 26	288 ON AUG 11	127 B ON APR 28	5 980 000	1966
1967	---	386 A ON AUG 16	128 B ON APR 16	7 040 000	1967
1968	276 AT 15:30 CST ON SEP 23 *	274 ON SEP 13	118 ON MAY 1	5 170 000	1968
1969	---	336 ON DEC 31	130 A ON AUG 30	5 210 000	1969
1970	---	236 A ON JAN 1	150 ON MAY 5	5 050 000	1970
1971	245 AT 13:00 CST ON AUG 18	238 ON AUG 15	140 E ON DEC 31	5 970 000	1971
1972	186 AT 13:48 CST ON JUL 30	187 ON JUL 30	88.68 ON APR 28	4 170 000	1972
1973	200 AT 18:38 CST ON AUG 17	200 ON AUG 18	83.7 ON APR 18	4 580 000	1973
1974	216 AT 19:00 CST ON AUG 10	213 ON AUG 8	138 ON DEC 24	5 240 000	1974
1975	212 AT 05:30 CST ON OCT 18	201 ON OCT 18	100 ON APR 28	4 780 000	1975
1976	181 AT 12:30 CST ON JAN 2	178 ON JAN 1	83.7 ON DEC 28	3 780 000	1976
1977	83.4 AT 03:00 CST ON NOV 6	82.8 ON NOV 3	73.1 ON APR 11	3 580 000	1977
1978	---	186 B ON NOV 29	81.38 ON MAR 28	3 800 000	1978
1979	---	338 A ON AUG 5	138 ON APR 17	5 700 000	1979
1980	193 B AT 00:01 CST ON JAN 1	182 B ON JAN 1	111 ON OCT 10	4 430 000	1980
1981	132 AT 08:43 CST ON DEC 25	132 ON DEC 25	93.3 ON APR 30	3 420 000	1981
1982	---	176 E ON SEP 9	106 ON APR 23	4 630 000	1982
1983	203 AT 11:30 CST ON AUG 4	200 ON AUG 3	126 ON APR 23	5 630 000R	1983
1984	198 AT 04:30 CST ON JUL 22	169 ON JUL 21	101 B ON DEC 31	4 130 000	1984
				5 180 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

GODS RIVER NEAR SHAMATTAWA - STATION NO. 05AD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	---	---	---	---	---	---	801	688	---	---	---	1968
1970	207	218	233	283	484	980	858	438	613	578	858	312	487	1970
1971	251	268	228	331	888	888	881	832	641	318	453	301	453	1971
1972	188	148	184	178	803	888	824	333	404	482	228	185	343	1972
1973	158	158	148	188	833	804	810	402	374	888	888	481	418	1973
1974	294	288	248	258	782	908	888	488	618	438	258	188	432	1974
1975	182	174	183	241	882	845	488	888	882	---	---	---	---	1975
1976	318	287	212	288	808	328	472	388	888	382	183	188	387	1976
1977	88.4	183	118	238	388	218	273	331	488	337	278	383	288	1977
1978	188	148	138	138	813	888	882	788	788	828	384	388	488	1978
1979	284	243	232	238	884	818	784	883	442	471	417	318	471	1979
1980	248	224	218	287	884	478	488	383	882	838	382	228	418	1980
1981	218	178	182	138	783	725	848	488	388	847	384	278	488	1981
1982	248	211	188	178	1 118	788	438	418	448	442	388	288	425	1982
1983	258	238	388	188	1 148	1 188	827	884	738	842	471	313	548	1983
1984	287	223	181	837	731	888	831	338	374	388	373	331	388	1984
MEAN	238	202	187	282	818	888	838	477	813	838	372	283	418	MEAN

LOCATION - LAT 55 51 00 N
LONG 92 05 55 W
DRAINAGE AREA, 85 800 km^2
NATURAL FLOW

GODS RIVER NEAR SHAMATTAWA - STATION NO. 05AD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	---	---	---	1969
1970	1 250 AT 09:12 CST ON JUN 11	1 240 ON JUN 11	304 B ON JAN 1	14 400 000	1970
1971	1 1808 AT 00:00 CST ON MAY 11	1 1508 ON MAY 11	161 B ON APR 13	14 300 000	1971
1972	1 140 AT 08:00 CST ON MAY 20	1 110 ON MAY 19	136 B ON DEC 15	10 800 000	1972
1973	1 330 AT 15:00 CST ON OCT 15	1 330 ON OCT 15	140 B ON MAR 23	13 100 000	1973
1974	1 170 AT 16:00 CST ON JUN 9	1 150 ON JUN 9	183 B ON DEC 30	13 600 000	1974
1975	---	---	---	---	1975
1976	---	---	---	---	1976
1977	---	1 7808 ON MAY 14	93.0B ON DEC 31	11 600 000	1976
1978	---	8138 ON APR 25	84.7B ON JAN 12 *	8 200 000	1977
1979	---	1 7008 ON MAY 13	133 B ON MAR 17	14 800 000	1978
		1 3708 ON MAY 24	214 B ON MAR 26	14 800 000	1979
1980	---	---	---	---	1980
1981	---	1 6908 ON MAY 3	207 B ON MAR 17	13 200 000	1980
1982	---	1 7808 ON MAY 18	130 B ON APR 28	12 600 000	1981
1983	2 860 AT 14:00 CST ON MAY 27 *	2 1308 ON MAY 3	161 B ON APR 24	13 400 000	1982
1984	1 030 AT 07:10 CST ON JUN 27	2 7908 ON MAY 27 *	188 B ON APR 14	17 300 000	1983
		1 030 ON JUN 27	189 B ON APR 7	12 800 000	1984
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		13 200 000	MEAN

GOPHER CREEK NEAR GLADSTONE - STATION NO. 05LL024

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	3.83	0.378	0.003	0.011	0	0	0	---	---	1.04	1974
1975	---	---	0	0.132	0.033	0.020	0	0.011	0.031	0.018	---	---	0.041	1975
1976	---	---	0.003	1.87	0.008	0.004	0	0	0	0	---	---	0.487	1976
1977	---	---	0.005	0	0.002	0.007	---	---	---	---	---	---	0.003	1977
1978	---	---	0.003	0.006	0.008	0.007	---	---	---	---	---	---	0.028	1978
1979	---	---	0	2.04	0.262	0.033	---	---	---	---	---	---	0.578	1979
1980	---	---	0	0.015	0	0	---	---	---	---	---	---	0.004	1980
1981	---	---	0.001	0.001	0.004	0.005	---	---	---	---	---	---	0.003	1981
1982	---	---	0.003	0.207	0.002	0	---	---	---	---	---	---	0.052	1982
1983	---	---	0	0.328	0.003	0.005	---	---	---	---	---	---	0.083	1983
1984	---	---	0.002	0.001	0.008	0.001	---	---	---	---	---	---	0.003	1984
MEAN	---	---	0.001	0.783	0.083	0.008	0.004	0.004	0.010	0.005	---	---	0.211	MEAN

LOCATION - LAT. 50 13 27 N
LONG 98 58 36 W
DRAINAGE AREA, 73.3 km^2
NATURAL FLOW

GOPHER CREEK NEAR GLADSTONE - STATION NO. 05LL024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	18.0 B ON APR 20 *	0B ON MAR 1 *	10 800	1974
1975	---	---	---	---	1975
1976	---	0.7608 ON APR 20	0B ON MAR 1	423	1976
1977	---	13.1 B ON APR 8	0B ON MAR 1	5 130	1977
1978	---	0.037 B ON JUN 13	0B ON MAR 1	38.8	1978
1979	---	0.403 ON APR 8	0B ON MAR 1	300	1979
1980	---	10.0 ON APR 24	0B ON MAR 1	6 080	1980
1981	0.024 AT 18:15 CST ON MAY 29	0.0538 ON APR 5	0B ON MAR 1	37.6	1981
1982	1.97 A AT 12:00 CST ON APR 16 *	0.021 ON MAY 30	0B ON MAR 1	30.5	1982
1983	1.18 AT 13:34 CST ON APR 24	1.56 A ON APR 16	0B ON MAR 1	661	1983
1984	0.1058 AT 14:03 CST ON MAY 3	1.03 ON APR 24	0B ON MAR 1	873	1984
		0.0388 ON MAY 3	0B ON MAR 1	32.8	1984
A - MANUAL GAUGE (SEE REFERENCE INDEX)	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 330	MEAN

GOPHER CREEK NEAR VIRDEN - STATION NO. 05MD003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.107	0.051	0.021	0	0	0	0	0	---	---	0.022	1959
1960	---	---	0	1.40	0.078	0.026	0	0	0	0	---	---	0.185	1960
1961	---	---	0	0.123	0.010	0	0	0	0	0	---	---	0.016	1961
1962	---	---	0	0.488	0.038	0.189	0	0.080	0	0	---	---	0.089	1962
1963	---	---	0.805	0.244	0.130	0.736	0.102	0.001	0.001	0	---	---	0.251	1963
1964	---	---	0	1.43	0.778	0.075	0.002	0	0	0	---	---	0.283	1964
1965	---	---	0	1.80	0.148	0.088	0.841	0.048	0.282	0.334	---	---	0.440	1965
1966	---	---	0.223	0.580	0.311	0.003	0	0	0	0	---	---	0.135	1966
1967	---	---	0	1.28	0.341	0.008	0	0	0	0	---	---	0.202	1967
1968	---	---	0.369	0.033	0.111	0.004	0	0	0	0	---	---	0.063	1968
1969	---	---	0	4.01	0.281	0.017	0.540	0.053	0	0.058	---	---	0.610	1969
1970	---	---	0	2.84	1.48	0.178	0.217	0.140	0.088	0.127	---	---	0.803	1970
1971	---	---	0.012	0.840	0.114	0.820	0.288	0.012	0.041	0.087	---	---	0.238	1971
1972	---	---	1.25	0.870	0.118	0.012	0.001	0.001	0.001	0.001	---	---	0.286	1972
1973	---	---	0.088	0.089	0.088	0.013	0.102	0.013	0.028	0.137	---	---	0.085	1973
1974	---	---	0.001	3.70	0.788	0.080	0	0	0	0	---	---	0.584	1974
1975	---	---	0	2.34	0.807	0.471	0.028	0.088	0.408	0.170	---	---	0.841	1975
1976	---	---	0	11.6	0.288	0.114	0.048	0	0	0	---	---	1.47	1976
1977	---	---	0.007	0.018	0.148	0.008	0	0	0	0	---	---	0.023	1977
1978	---	---	0.018	0.278	0.082	0.008	0	0	0	0	---	---	0.047	1978
1979	---	---	0	3.12	0.841	0.130	0.003	0	0	0	---	---	0.344	1979
1980	---	---	0	0.085	0	0	0	0	0	0	---	---	0.012	1980
1981	---	0.130	0.074	0	0.001	0	0	0	0	0	---	---	0.008	1981
1982	---	---	0	0.889	0.032	0.011	0	0	0	0	---	---	0.112	1982
1983	---	---	0	1.70	0.051	0.023	0	0	0	0	---	---	0.217	1983
1984	---	---	0	0	0	0	0	0	0	0	---	---	0	1984
MEAN	---	0.130	0.114	1.48	0.284	0.117	0.084	0.016	0.031	0.035	---	---	0.284	MEAN

LOCATION - LAT 49 47 00 N DRAINAGE AREA, 380 km²
LONG 100 57 52 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.410 AND 0 m³/s OCCURRED IN FEBRUARY

GOPHER CREEK NEAR VIRDEN - STATION NO. 05MD003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	0.467 ON MAR 27	0B ON MAR 1 *	478	1959
1960	---	5.44 B ON APR 4	0B ON MAR 1	3 810	1960
1961	---	0.634 ON APR 4	0 ON MAR 1	348	1961
1962	---	4.08 ON APR 7	0 ON MAR 1	2 100	1962
1963	---	4.87 E ON MAR 23	0B ON MAR 1	5 330	1963
1964	---	3.74 ON APR 10	0B ON MAR 1	5 810	1964
1965	---	7.82 ON APR 14	0B ON MAR 1	9 310	1965
1966	---	2.12 B ON MAR 30	0B ON MAR 1	2 870	1966
1967	---	3.83 B ON APR 11	0B ON MAR 1	4 380	1967
1968	---	1.07 B ON MAR 28	0B ON MAR 1	1 430	1968
1969	---	17.3 B ON APR 14	0B ON MAR 1	12 800	1969
1970	---	6.06 B ON APR 10	0B ON MAR 1	12 800	1970
1971	---	2.73 ON JUN 9	0B ON MAR 1	5 000	1971
1972	---	4.81 B ON MAR 31	0B ON MAR 1	5 230	1972
1973	---	1.14 ON JUL 28	0B ON MAR 1	1 370	1973
1974	---	13.4 ON APR 18	0B ON MAR 1	11 800	1974
1975	---	7.48 B ON APR 17	0B ON MAR 1	11 500	1975
1976	---	45.2 B ON APR 10 *	0B ON MAR 1	31 200	1976
1977	---	0.821 ON MAY 9	0B ON MAR 1	477	1977
1978	---	0.9130 ON APR 11	0B ON MAR 1	988	1978
1979	---	10.6 ON APR 23	0B ON MAR 1	7 290	1979
1980	---	0.4348 ON APR 8	0B ON MAR 1	346	1980
1981	---	0.2838 ON MAR 1	0 ON MAR 30	201	1981
1982	8.27 AT 19:08 CST ON APR 14 *	5.73 ON APR 14	0B ON MAR 1	3 370	1982
1983	8.808 AT 12:04 CST ON APR 11	4.80 ON APR 22	0B ON MAR 1	4 610	1983
1984	---	0.0032 ON MAR 28	0B ON MAR 1	0.80	1984
				5 580	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

GRAHAM CREEK NEAR MELITA - STATION NO. 05NF005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1938	---	---	---	---	0.014	0	---	---	---	---	---	---	---	1938
1943	---	---	0	1.45	0.081	0.175	0.024	0	0	0	---	---	0.210	1943
1944	---	---	0	0	0	0.101	0.137	0.008	0.004	0.004	---	---	0.030	1944
1945	---	---	0.015	0.078	0.027	0.020	0.005	0	0	0	---	---	0.018	1945
1946	---	---	0.047	0.251	0.013	0	0.002	0	0	0	---	---	0.114	1946
1947	---	---	0	0.189	0.006	0.150	0.123	0	0	0	---	---	0.068	1947
1948	---	---	0	1.11	0.678	0.004	0	0	0	0	---	---	0.222	1948
1949	---	---	0	1.16	0.054	0.249	0.002	0	0	0	---	---	0.179	1949
1950	---	---	0	0.683	0.835	0.182	0.131	0.380	0.148	0.080	---	---	0.269	1950
1951	---	---	0	2.17	1.58	0.082	0	0	0	0	---	---	0.475	1951
1952	---	---	0.033	0.267	0	0	0.006	0	0	0	---	---	0.038	1952
1953	---	---	0.015	0.035	0	0.007	0	0	0	0	---	---	0.007	1953
1954	---	---	0	0	0	0.237	0.198	0.026	0	0	---	---	0.068	1954
1955	---	---	0	1.71	0.418	0.085	0.020	0	0	0	---	---	0.277	1955
1956	---	---	0	1.88	0.190	0.053	0.015	0	0	0	---	---	0.284	1956
1957	---	---	0.078	0.078	0.043	0.055	0.009	0.181	0.181	0.023	---	---	0.077	1957
1958	---	---	0.355	0.208	0.010	0	0	0	0	0	---	---	0.072	1958
1959	---	---	0.071	0.005	0	0	0	0	0	0	---	---	0.010	1959
1960	---	---	0.158	0.507	0.019	0.008	0	0	0	0	---	---	0.079	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0	0	0	0	0	0	0	---	---	0	1962
1963	---	---	0.135	0.017	0.002	0.545	0.018	0.003	0.007	0.001	---	---	0.069	1963
1964	---	---	0.433	0.781	0.500	0.101	0.018	0	0	0	---	---	0.220	1964
1965	---	---	0	0.214	0.084	0.035	0.003	0	0	0.007	---	---	0.050	1965
1966	---	---	0.101	0.205	0.155	0.048	0.001	0	0	0	---	---	0.078	1966
1967	---	---	0	0.051	0.077	0.001	0	0	0	0	---	---	0.018	1967
1968	---	---	0.041	0.004	0	0	0	0	0	0	---	---	0.011	1968
1969	---	---	0	3.29	0.571	0.063	0.142	0.023	0	0	---	---	0.508	1969
1970	---	---	0	0.823	2.05	0.158	0.018	0.005	0	0	---	---	0.385	1970
1971	---	---	0	0.085	0.006	0.189	0.031	0	0	0.003	---	---	0.034	1971
1972	---	---	0.705	0.509	0.111	0.007	0.022	0.010	0.005	0.003	---	---	0.163	1972
1973	---	---	0.001	0.025	0.078	0.018	0.001	0	0	0.005	---	---	0.017	1973
1974	---	---	0	3.48	0.549	0.184	0.007	0.003	0	0	---	---	0.518	1974
1975	---	---	0	1.87	1.78	0.121	0.028	0.008	0.027	0.273	---	---	0.486	1975
1976	---	---	0	14.4	1.20	0.117	0.003	0.001	0	0	---	---	1.83	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.007	0	0	0	0	0	0	---	---	0.001	1978
1979	---	---	0	0.497	0.043	0.006	0	0	0	0	---	---	0.067	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	0.001	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.241	0	0	0.002	0	0	0	---	---	0.030	1982
1983	---	---	0.044	0.801	0.081	0.003	0	0	0	0	---	---	0.112	1983
1984	---	---	0.001	0	0.006	0	0	0	0	0	---	---	0.001	1984
MEAN	---	0.001	0.089	0.928	0.256	0.073	0.023	0.014	0.008	0.008	---	---	0.172	MEAN

LOCATION - LAT 49 15 50 N DRAINAGE AREA, 784 km²
LONG 100 08 45 W NATURAL FLOW

REMARKS - DATA PRIOR TO 1957 WERE PUBLISHED UNDER STATION NO. 05NF004 "GRAHAM CREEK NEAR MELITA"

GRAHAM CREEK NEAR MELITA - STATION NO. 05MF005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1938	---	---	0 ON MAY 24 *	---	1938
1943	---	10.1 ON APR 4	0B ON MAR 1	4 450	1943
1944	---	0.884 ON JUN 20	0B ON MAR 1	838	1944
1945	---	0.5018 ON APR 13	0B ON MAR 1	384	1945
1946	---	8.80 ON MAR 27	0B ON MAR 1	2 420	1946
1947	---	0.8848 ON APR 12	0B ON MAR 1	1 250	1947
1948	---	9.15 ON APR 22	0B ON MAR 1	4 700	1948
1949	---	11.2 ON APR 11	0B ON MAR 1	3 800	1949
1950	---	1.38 ON MAY 16	0B ON MAR 1	5 830	1950
1951	---	7.02 ON MAY 5	0B ON MAR 1	10 000	1951
1952	---	1.10 B ON APR 2	0B ON MAR 1	802	1952
1953	---	0.810 ON MAR 31	0E ON MAR 1	152	1953
1954	---	0.2276 ON JUN 1	0E ON MAR 1	1 190	1954
1955	---	7.02 B ON APR 5	0B ON MAR 1	5 350	1955
1956	---	4.53 ON APR 14	0B ON MAR 1	5 580	1956
1957	---	1.27 ON AUG 1	0 ON MAR 1	1 630	1957
1958	---	2.27 B ON MAR 29	0B ON MAR 1	1 520	1958
1959	---	0.5068 ON MAR 27	0B ON MAR 1	203	1959
1960	---	1.81 B ON APR 4	0B ON MAR 1	1 870	1960
1961	---	0 ON MAR 1	0 ON MAR 1	0	1961
1962	---	0 ON MAR 1	0 ON MAR 1	0	1962
1963	---	1.50 ON JUN 2	0B ON MAR 1	1 870	1963
1964	---	2.12 B ON APR 3	0B ON MAR 1	4 850	1964
1965	---	0.8548 ON APR 18	0 ON MAR 1	1 060	1965
1966	---	0.7388 ON MAR 18	0B ON MAR 1	1 820	1966
1967	---	0.2698 ON APR 11	0B ON MAR 1	342	1967
1968	---	0.3818 ON MAR 26	0B ON MAR 1	229	1968
1969	---	11.8 ON APR 17	0B ON MAR 1	10 700	1969
1970	---	5.66 E ON MAY 3	0B ON MAR 1	8 350	1970
1971	---	0.841 ON JUN 12	0B ON MAR 1	710	1971
1972	---	2.16 B ON MAR 24	0B ON MAR 1	3 870	1972
1973	---	0.122 ON MAY 2	0B ON MAR 1	388	1973
1974	---	16.8 B ON APR 18	0B ON MAR 1	11 000	1974
1975	---	5.66 ON MAY 3	0B ON MAR 1	10 390	1975
1976	---	36.8 ON APR 12 *	0B ON MAR 1	40 800	1976
1977	---	0.0018 ON MAR 8	0B ON MAR 1	0.52	1977
1978	---	0.0408 ON APR 16	0B ON MAR 1	18.0	1978
1979	---	3.20 B ON APR 19	0B ON MAR 1	1 420	1979
1980	---	0 B ON MAR 1	0B ON MAR 1	0	1980
1981	---	0 B ON MAR 1	0B ON MAR 1	0	1981
1982	1.48 AT 02:10 CST ON APR 16	1.28 ON APR 15	0B ON MAR 1	630	1982
1983	2.03 AT 04:40 CST ON APR 7 *	1.51 B ON APR 5	0B ON MAR 1	2 370	1983
1984	0.294 AT 08:13 CST ON MAY 7	0.066 ON MAY 7	0B ON MAR 1	24.7	1984
				3 630	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GRASS RIVER ABOVE STANDING STONE FALLS - STATION NO. 06TD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	---	---	---	---	---	---	110	98.3	76.8	61.7	---	1959
1960	46.2	43.1	33.1	30.6	48.7	123	110	91.5	86.3	46.0	39.0	29.5	59.3	1960
1961	23.8	20.7	17.9	15.6	34.2	43.0	35.8	29.8	22.4	16.3	19.0	16.5	24.6	1961
1962	15.2	14.2	13.3	12.8	41.4	106	112	77.5	86.2	44.8	40.5	38.3	47.7	1962
1963	36.8	31.8	28.7	30.9	70.6	130	126	89.7	84.3	51.3	48.0	42.8	62.8	1963
1964	38.2	36.8	33.3	30.2	88.8	80.2	63.8	53.1	59.0	87.8	104	98.4	62.0	1964
1965	82.8	68.4	54.3	43.2	103	194	207	161	138	116	99.8	84.1	113	1965
1966	68.7	56.3	46.8	41.8	70.8	184	237	226	187	138	99.4	76.8	120	1966
1967	59.8	50.7	44.1	38.8	84.8	121	130	111	80.8	80.4	80.4	43.8	70.8	1967
1968	37.1	33.7	29.2	27.8	89.2	140	142	117	88.1	80.7	87.3	84.4	61.3	1968
1969	79.7	66.8	61.8	47.3	87.0	98.4	85.9	70.4	88.7	118	127	109	84.6	1969
1970	84.9	84.3	49.8	39.4	82.2	103	194	138	107	87.5	81.1	88.2	83.3	1970
1971	78.1	62.7	48.8	42.9	80.3	102	114	101	88.3	73.0	80.3	89.8	81.8	1971
1972	82.3	73.8	58.1	41.1	87.8	133	146	128	107	97.7	88.2	73.0	83.8	1972
1973	88.8	67.1	50.1	38.8	67.0	88.8	82.1	84.4	78.3	88.1	81.4	83.8	80.3	1973
1974	48.0	36.3	32.8	31.5	87.8	118	128	107	78.9	87.8	48.0	38.8	88.2	1974
1975	33.8	30.1	28.3	28.3	38.7	88.8	118	118	91.4	83.3	77.6	83.7	88.8	1975
1976	80.0	38.8	33.3	33.8	32.4	37.8	88.9	78.8	77.4	81.8	83.3	48.8	88.1	1976
1977	38.1	33.8	38.8	34.8	83.7	81.3	108	88.8	82.2	84.4	84.3	82.8	88.8	1977
1978	88.3	88.8	43.2	38.3	82.4	88.8	88.8	88.8	78.3	88.3	88.8	82.8	78.7	1978
1979	77.8	88.8	48.8	37.7	88.8	124	188	141	103	77.8	81.8	48.4	84.8	1979
1980	41.8	38.1	38.3	38.3	38.8	31.7	33.8	32.8	81.4	83.7	88.8	88.2	81.3	1980
1981	71.4	84.1	42.8	34.4	88.8	74.1	78.1	78.8	88.8	48.8	82.8	88.3	88.1	1981
1982	88.8	88.4	41.8	34.8	77.7	118	112	84.8	74.1	88.8	48.7	48.3	87.8	1982
1983	41.7	38.8	31.4	37.8	48.8	122	133	122	108	117	118	102	83.2	1983
1984	88.8	71.8	84.8	81.4	88.1	128	137	118	83.8	88.1	83.8	88.3	81.7	1984
MEAN	88.8	48.8	38.8	34.4	88.4	108	118	102	88.8	78.8	74.8	87.8	72.2	MEAN

LOCATION - LAT 88 44 38 N DRAINAGE AREA, 18 488 km^2
LONG 87 88 88 W NATURAL FLOW

GRASS RIVER ABOVE STANDING STONE FALLS - STATION NO. 05TB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	---	---	---	1959
1960	---	136 E ON JUN 28	28.3 ON DEC 31	5 880 000	1960
1961	---	48.4 ON MAY 30	15.0E ON APR 21	780 000	1961
1962	132 AT 18:20 CST ON JUN 28	122 ON JUN 28	12.7E ON APR 11 *	1 810 000	1962
1963	147 AT 13:30 CST ON JUN 23	140 ON JUN 28	28.3 ON MAR 21	1 870 000	1963
1964	---	108 ON NOV 17	20.8A ON MAR 19	1 800 000	1964
1965	---	215 E ON JUL 1	36.5 ON APR 26	3 880 000	1965
1966	---	248 ON JUL 21 *	39.6 ON APR 28	3 780 000	1966
1967	---	134 ON JUN 28	35.1E ON MAY 2	2 230 000	1967
1968	---	180 E ON JUL 9	28.3A ON APR 25	2 570 000	1968
1969	---	129 ON NOV 3	41.3 ON APR 11	2 870 000	1969
1970	---	182 E ON JUL 12	36.2 ON APR 17	2 790 000	1970
1971	128 AT 16:13 CST ON JUL 14	124 ON JUL 13	40.2 ON APR 19	2 570 000	1971
1972	122 AT 11:48 CST ON JUL 16	151 ON JUL 16	37.4 ON APR 26	2 880 000	1972
1973	88.0 AT 13:00 CST ON AUG 28	90.0 ON AUG 28	34.5A ON APR 19	1 900 000	1973
1974	140 AT 17:00 CST ON JUL 13	135 ON JUN 29	28.4 ON APR 24	2 080 000	1974
1975	132 AT 13:15 CST ON JUL 26	129 ON JUL 26	25.0 ON APR 13	2 070 000	1975
1976	88.9 AT 12:30 CST ON AUG 16	84.4 ON SEP 8	26.8 ON APR 5	1 560 000	1976
1977	117 AT 10:15 CST ON JUL 13	112 ON JUL 13	28.0 ON MAR 31	2 110 000	1977
1978	108 AT 12:45 CST ON NOV 3	88.1 ON NOV 1	35.1 ON APR 22	2 230 000	1978
1979	178 AT 19:00 CST ON JUL 18 *	173 ON JUL 18	36.1 ON APR 18	2 860 000	1979
1980	103 AT 18:15 CST ON OCT 30	103 ON OCT 30	26.9 ON APR 13	1 820 000	1980
1981	80.0 AT 12:30 CST ON JUL 9	84.8 ON JUL 9	32.1 ON APR 26	1 830 000	1981
1982	128 AT 11:50 CST ON JUN 28	122 ON JUN 28	32.8 ON APR 23	2 130 000	1982
1983	142 AT 15:35 CST ON JUL 27	137 ON JUL 19	27.1 ON APR 18	2 820 000	1983
1984	182 AT 12:43 CST ON JUN 30	148 ON JUN 29	45.0 ON APR 8	2 900 000	1984
				2 360 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GRASS RIVER AT WEKUSKO FALLS - STATION NO. 05TB002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	11.2	8.22	8.22	8.84	4.83	4.81	---	1957
1958	9.18	8.28	8.90	8.32	13.3	13.8	10.3	7.47	8.80	7.05	7.84	8.80	8.08	1958
1959	7.24	8.88	8.67	8.59	14.8	23.8	22.9	17.0	12.8	12.3	11.4	11.8	12.7	1959
1960	10.8	10.0	9.28	8.68	12.7	23.2	18.0	12.1	8.21	8.28	4.88	4.12	10.7	1960
1961	4.87	4.72	4.63	8.04	8.87	8.32	8.38	3.87	2.14	1.85	1.71	2.11	3.88	1961
1962	2.18	2.88	3.20	3.38	8.18	18.0	11.8	8.87	7.92	8.31	8.12	8.18	8.88	1962
1963	8.08	8.04	4.82	8.48	10.8	18.8	17.3	11.8	8.81	8.80	8.41	7.88	8.87	1963
1964	8.37	7.47	8.78	8.37	8.87	7.88	7.02	8.81	13.4	18.2	20.8	18.1	11.8	1964
1965	18.3	14.1	12.8	11.8	18.8	33.7	27.8	18.2	18.4	13.8	12.8	12.4	17.4	1965
1966	11.7	18.8	8.88	8.78	12.3	28.2	48.3	42.7	31.1	23.8	18.2	17.8	21.8	1966
1967	18.1	13.1	11.2	18.8	12.8	18.3	18.8	18.1	12.8	8.78	8.32	8.28	13.3	1967
1968	8.74	8.88	8.48	8.44	12.7	17.8	18.3	13.4	12.3	12.7	13.8	13.8	12.4	1968
1969	11.8	11.8	18.1	11.2	14.3	12.8	18.1	8.88	8.88	12.8	14.3	14.2	11.7	1969
1970	12.3	18.8	8.92	8.37	13.2	17.8	28.8	28.1	18.4	18.1	17.1	16.8	18.2	1970
1971	14.2	12.8	11.8	18.8	18.7	18.8	14.8	11.2	8.78	8.81	18.7	12.4	12.2	1971
1972	11.8	11.2	18.3	8.88	18.8	28.8	28.8	23.2	17.8	17.3	18.8	14.8	18.4	1972
1973	13.8	12.8	11.1	18.1	18.8	24.8	22.7	18.8	13.4	8.88	8.88	8.87	14.1	1973
1974	8.38	8.33	8.12	8.87	18.1	18.8	18.1	18.7	8.38	8.81	8.37	8.11	18.2	1974
1975	8.44	8.47	8.31	8.47	8.17	17.3	28.2	18.2	11.8	18.8	8.81	7.82	18.8	1975
1976	7.88	7.88	8.82	8.88	8.77	8.31	12.2	12.8	11.4	18.8	8.24	8.88	8.84	1976
1977	8.42	8.82	7.88	7.88	8.84	8.88	11.8	18.8	18.8	14.8	18.2	18.7	11.7	1977
1978	13.2	11.2	8.82	8.74	11.8	12.1	12.3	18.8	18.2	13.8	13.8	12.8	11.7	1978
1979	12.1	18.8	18.8	8.78	18.4	28.3	23.8	18.8	11.2	8.71	8.11	8.73	13.8	1979
1980	8.24	8.28	7.88	7.28	7.18	8.88	8.58	4.48	8.88	8.42	8.87	8.38	7.28	1980
1981	8.72	8.87	8.12	7.82	8.28	8.28	8.48	8.48	4.83	8.22	8.82	7.87	7.88	1981
1982	7.83	8.78	8.87	7.88	18.8	13.8	11.8	8.32	7.32	8.22	8.38	8.84	8.11	1982
1983	8.88	8.82	8.81	8.83	8.88	12.8	18.8	22.2	22.8	21.8	28.1	17.8	13.7	1983
1984	14.8	13.7	11.3	14.7	23.8	28.2	28.3	18.8	14.8	17.8	21.2	21.3	18.7	1984
MEAN	8.88	8.88	8.38	8.43	12.4	17.2	17.2	14.2	11.8	11.1	11.2	18.8	11.8	MEAN

LOCATION - LAT 54 47 20 N LONG 88 58 18 W

DRAINAGE AREA, 3 280 km^2

NATURAL FLOW

GRASS RIVER AT WEKUSKO FALLS - STATION NO. 05TB002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	15.3 ON JUN 13	4.73 ON JAN 11	255 000	1958
1959	---	27.7 ON JUL 6	6.37 ON MAR 4	400 000	1959
1960	---	25.6 E ON JUN 12	3.82 ON DEC 22	336 000	1960
1961	---	8.84 ON MAY 21	1.30 ON OCT 11 *	125 000	1961
1962	---	21.8 ON JUN 16	1.93 ON JAN 3	217 000	1962
1963	---	20.3 ON JUN 30	4.13 ON APR 21	302 000	1963
1964	---	21.4 ON OCT 24	5.72 ON APR 25	349 000	1964
1965	---	34.8 E ON JUN 11	10.6 ON APR 22	549 000	1965
1966	---	50.1 ON JUL 6 *	8.35 ON APR 15	689 000	1966
1967	---	19.9 ON JUL 7	8.76 ON DEC 27	416 000	1967
1968	---	20.8 ON JUL 16	7.98A ON APR 3	392 000	1968
1969	---	16.0 E ON MAY 20	8.10 ON SEP 3	389 000	1969
1970	33.7 AT 18:00 CST ON JUL 7 *	32.6 ON JUL 7	9.12 ON APR 21	512 000	1970
1971	18.7 AT 13:00 CST ON JUN 1	17.4 ON JUN 2	7.84 ON SEP 25	384 000	1971
1972	30.6 AT 17:00 CST ON JUL 10	28.8 ON JUL 9	9.00 ON APR 22	519 000	1972
1973	26.3 AT 18:48 CST ON JUN 23	27.8 ON JUN 24	8.52 ON DEC 4	448 000	1973
1974	20.8 AT 16:06 CST ON JUN 5	20.8 ON JUN 14	5.92 ON DEC 12	323 000	1974
1975	24.1 AT 15:30 CST ON JUN 29	22.5 ON JUL 4	5.97 ON APR 2	334 000	1975
1976	14.9 AT 17:18 CST ON AUG 2	14.4 ON AUG 2	6.34 ON MAY 31	285 000	1976
1977	18.2 AT 13:01 CST ON NOV 12	17.3 ON SEP 14	7.05 ON APR 8	368 000	1977
1978	15.8 AT 13:51 CST ON NOV 7	15.0 ON NOV 7	9.37 ON MAR 31	389 000	1978
1979	31.8 AT 17:06 CST ON JUN 8	28.7 ON JUN 8	8.44 ON DEC 17	434 000	1979
1980	10.1 AT 05:51 CST ON OCT 30	8.90 ON NOV 18	4.08 ON AUG 20	233 000	1980
1981	12.4 AT 14:04 CST ON JUL 6	11.6 ON JUN 30	4.17 ON OCT 7	238 000	1981
1982	14.3 AT 12:26 CST ON JUN 24	14.0 ON JUN 24	5.03 ON NOV 17	256 000	1982
1983	28.0 AT 15:48 CST ON SEP 23	25.0 ON SEP 23	5.27 ON APR 11	431 000	1983
1984	32.8 AT 14:22 CST ON JUN 10	31.0 ON JUN 10	10.5 ON MAR 18	590 000	1984
				375 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GRASSMERE DRAIN NEAR MIDDLECHURCH - STATION NO. 05DJ017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	---	---	1.01	2.21	0.185	---	---	---	---	---	---	1983
1984	---	---	0	1.22	0.062	0.118	---	---	---	0.038	---	---	---	1984
1985	---	---	0	5.05	0.807	0.125	0.084	0.037	0.034	0.023	---	---	0.853	1985
1986	---	---	0.005	4.20	0.476	0.132	0.216	0.065	0.019	0.008	---	---	0.681	1986
1987	---	---	0.027	3.66	0.562	0.064	0.068	0.001	0.001	0	---	---	0.532	1987
1988	---	---	0.454	0.553	0.161	0.068	0.613	1.64	0.893	0.448	---	---	0.585	1988
1989	---	---	0	5.73	0.548	0.873	1.82	0.895	0.208	0.185	---	---	1.25	1989
1970	---	---	0	5.35	1.32	0.455	0.880	0.170	0.213	0.113	---	---	1.52	1970
1971	---	---	0	5.40	0.253	0.107	0.182	0.095	0.015	0.013	---	---	0.855	1971
1972	---	---	0.111	5.88	0.044	0.019	0.014	0.028	0.013	0.015	---	---	0.751	1972
1973	---	---	1.82	0.015	0.006	0.052	0.011	0.005	0.013	0.028	---	---	0.209	1973
1974	---	---	0	13.9	4.98	0.405	0.111	0.061	0.045	0.061	---	---	2.42	1974
1975	---	---	0	1.44	0.067	0.025	0.003	0.002	0	0.011	---	---	0.183	1975
1976	---	---	0	4.47	0.010	0.006	0.011	0.001	0	0	---	---	0.562	1976
1977	---	---	0.012	0.280	0.073	0.087	0.817	0.001	0.288	0.078	---	---	0.101	1977
1978	---	---	0	5.46	0.262	0.081	0.033	0.008	0.033	0.015	---	---	0.843	1978
1979	---	---	0	14.5	2.38	0.187	0.026	0.013	0.003	0.003	---	---	2.10	1979
1980	---	---	0	1.14	0.018	0.007	0	0	0	0.007	---	---	0.144	1980
1981	---	---	0.486	0.037	0.021	0.045	0.014	0.035	0.008	0.031	---	---	0.086	1981
1982	---	---	0.438	2.51	0.044	0.059	0.031	0.009	0.018	0.048	---	---	0.389	1982
1983	---	---	0.831	5.92	0.030	0.885	0.110	0.023	0.008	0.004	---	---	0.895	1983
1984	---	---	0.282	0.272	0.038	0.021	0	0	0	0.022	---	---	0.575	1984
MEAN	---	---	0.183	3.47	0.611	0.281	0.198	0.184	0.084	0.053	---	---	0.783	MEAN

LOCATION - LAT 50 06 55 N LONG 97 07 01 W DRAINAGE AREA, 471 km^2 NATURAL FLOW

GRASSMERE DRAIN NEAR MIDDLECHURCH - STATION NO. 05DJ017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	---	---	1963
1964	---	3.948 ON APR 15	05 ON MAR 1 *	---	1964
1965	---	21.9 ON APR 15	05 ON MAR 1	15 100	1965
1966	---	16.1 B ON APR 12	05 ON MAR 1	14 400	1966
1967	---	11.4 B ON APR 21	05 ON MAR 1	11 300	1967
1968	---	19.1 ON APR 25	05 ON MAR 1	12 400	1968
1969	---	24.7 B ON APR 10	05 ON MAR 1	25 500	1969
1970	---	26.9 B ON APR 25	05 ON MAR 1	32 200	1970
1971	22.4 AT 21:29 CST ON APR 19	21.6 ON APR 11	05 ON MAR 1	18 300	1971
1972	28.9 B AT 15:10 CST ON APR 15	27.3 B ON APR 15	05 ON MAR 1	16 000	1972
1973	6.888 AT 15:16 CST ON MAR 23	5.729 ON MAR 23	05 ON MAR 1	4 430	1973
1974	51.3 AT 17:22 CST ON APR 21 *	50.1 ON APR 21	05 ON MAR 1	51 200	1974
1975	4.06 AT 06:05 CST ON APR 23	3.65 ON APR 23	05 ON MAR 1	4 070	1975
1976	---	24.1 B ON APR 7	05 ON MAR 1	11 900	1976
1977	2.48 AT 07:00 CST ON APR 10	2.21 ON APR 10	05 ON MAR 1	2 140	1977
1978	---	17.9 B ON APR 12	05 ON MAR 1	17 800	1978
1979	---	50.7 ON APR 21 *	05 ON MAR 1	44 400	1979
1980	6.25 AT 22:10 CST ON APR 11	4.728 ON APR 12	05 ON MAR 1	3 050	1980
1981	---	1.368 ON MAR 24	05 ON MAR 1	1 830	1981
1982	---	14.6 B ON APR 13	05 ON MAR 1	8 230	1982
1983	28.4 AT 20:58 CST ON APR 4	23.7 B ON APR 5	05 ON MAR 1	18 800	1983
1984	4.568 AT 08:56 CST ON APR 3	3.218 ON MAR 25	05 ON MAR 1	1 590	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		15 900	MEAN

GUNISAO RIVER ABOVE DIAMOND RAPIDS - STATION NO. 05UA003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	21.9	15.7	9.88	8.27	---	---	---	---	1971
1972	---	---	---	---	---	32.1	18.4	9.40	5.19	4.53	3.78	2.78	---	1972
1973	2.57	2.20	3.02	10.0	34.0	34.8	31.1	12.6	7.12	17.5	14.5	11.8	15.2	1973
1974	9.32	5.80	4.92	17.6	74.8	46.8	---	---	---	---	---	---	---	1974
1975	2.49	2.27	2.30	---	---	---	37.0	23.4	20.3	19.3	15.4	7.28	---	1975
1976	5.22	4.46	3.96	11.2	9.24	15.8	20.0	8.81	4.79	4.28	3.30	2.84	7.82	1976
1977	2.41	2.21	2.05	9.56	19.6	18.4	18.4	21.2	29.0	21.6	15.8	8.75	14.2	1977
1978	5.46	3.59	2.83	7.24	18.9	11.5	8.81	---	8.25	14.0	20.9	11.4	---	1978
1979	6.38	4.73	3.97	7.17	59.0	---	---	20.8	13.1	16.0	20.9	13.7	---	1979
1980	8.29	6.04	4.92	15.2	27.0	13.5	5.78	4.23	8.78	14.9	8.38	5.45	10.2	1980
1981	3.83	2.92	2.17	3.92	18.7	20.2	20.5	18.0	16.0	26.2	33.9	21.3	15.5	1981
1982	11.4	8.50	4.12	---	---	48.7	30.8	20.0	12.2	24.8	20.9	13.7	---	1982
1983	8.82	3.32	0.833	9.87	---	---	---	---	---	11.0	10.7	7.80	---	1983
1984	5.35	4.38	3.72	22.5	36.8	21.7	11.2	8.48	4.06	6.17	7.40	6.39	11.4	1984
MEAN	6.03	4.04	3.24	11.4	32.9	26.0	19.8	14.1	11.1	15.0	14.7	9.41	12.4	MEAN

LOCATION - LAT 53 47 10 N DRAINAGE AREA, 4 400 km^2
LONG 97 40 20 W NATURAL FLOW

REMARKS - DISCHARGE RECORDS PRIOR TO JUN 1972 WERE OBTAINED AT LAT. 53 48 30 LONG. 097 42 40, AT FIRST PITCH ABOVE DIAMOND RAPIDS

GUNISAO RIVER ABOVE DIAMOND RAPIDS - STATION NO. 05UA003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	44.2 ON JUL 8	2.158 ON FEB 19	478 000	1973
1974	93.4 AT 19:10 CST ON APR 30	92.8 ON MAY 1 *	---	---	1974
1975	---	---	---	---	1975
1976	38.0 AT 14:00 CST ON JUN 29	35.7 ON JUN 29	2.518 ON DEC 31	247 000	1976
1977	---	32.3 ON SEP 4	1.938 ON APR 6	448 000	1977
1978	30.0 AT 14:00 CST ON APR 28	28.4 ON APR 28	2.928 ON MAR 5	---	1978
1979	---	---	3.628 ON APR 8	---	1979
1980	---	39.4E ON APR 25	2.41 ON AUG 20	323 000	1980
1981	40.8 AT 12:30 CST ON NOV 6	39.7 ON NOV 6	1.788 ON APR 4 *	490 000	1981
1982	---	---	3.538 ON APR 4	---	1982
1983	111 AT 08:30 CST ON MAY 24 *	---	---	---	1983
1984	42.1 AT 17:50 CST ON MAY 8	42.1 ON MAY 7	3.438 ON MAR 30	358 000	1984
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		391 000	MEAN

HALES CREEK NEAR HARDING - STATION NO. 05MG011

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1975	0	0	0	2.63	0.140	0.043	0	0.020	0.405	0.015	0.007	0	0.284	1975
1976	0	0	0	3.80	0.028	0.186	0.003	0	0	0	0	0	0.329	1976
1977	0	0	0.017	0.015	0.008	0.001	0.015	0.003	0.002	0.001	0.004	0.[illegible]1	0.005	1977
MEAN	0	0	0.006	2.21	0.058	0.077	0.006	0.008	0.136	0.005	0.004	0	0.205	MEAN

LOCATION - LAT 49 54 46 N DRAINAGE AREA, 110 km^2
LONG 100 30 26 W NATURAL FLOW

HALES CREEK NEAR HARDING - STATION NO. 05MG011

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1975	47.6 AT 17:55 CST ON APR 27 *	21.3 ON APR 28	0.0 ON JAN 1 *	8 950	1975
1976	---	33.3 B ON APR 9 *	0.0 ON JAN 1	10 400	1976
1977	0.282 AT 02:40 CST ON JUL 14	0.127 ON JUL 13	0.0 ON JAN 1	171	1977
				8 510	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAMIOTA CREEK NEAR HAMIOTA - STATION NO. 05MG005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0	0.008	0	0	0.013	0	0	0	---	---	0.003	1961
1962	---	---	0	0.088	0	0	0	0	0	0	---	---	0.011	1962
1963	---	---	0.088	0.017	0	0.034	0.015	0	0	0	---	---	0.019	1963
1964	---	---	0	0.052	0.024	0	0.006	0	0	0	---	---	0.011	1964
1965	---	---	0	0.053	0.009	0.002	0	0	0	0	---	---	0.008	1965
1966	---	---	0.001	0.058	0.030	0.001	0	0	0	0	---	---	0.011	1966
1967	---	---	0	0.294	0.117	0.005	0	0	0	0	---	---	0.051	1967
1968	---	---	0.023	0.015	0	0	0	0	0	0	---	---	0.005	1968
1969	---	---	0	0.804	0.024	0	0	0	0	0	---	---	0.077	1969
1970	---	---	0	0.148	0.075	0.001	0	0	0	0	---	---	0.028	1970
1971	---	---	0	0.043	0	0.104	0.025	0	0	0	---	---	0.021	1971
1972	---	---	0.013	0.131	0.018	0	0	0	0	0	---	---	0.020	1972
1973	---	---	0.001	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	0.235	0.031	0	0	0	0	0	---	---	0.033	1974
1975	---	---	0	0.228	0.205	0	0	0	0	0	---	---	0.054	1975
1976	---	---	0	0.544	0.008	0	0	0	0	0	---	---	0.068	1976
MEAN	---	---	0.008	0.158	0.034	0.008	0.004	0	0	0	---	---	0.026	MEAN

LOCATION - LAT 50 10 50 N DRAINAGE AREA, 48.2 km^2
LONG 100 33 30 W NATURAL FLOW

HAMIOTA CREEK NEAR HAMIOTA - STATION NO. 05MG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	0.402 ON JUL 20	0.0 ON MAR 1 *	54.5	1961
1962	---	1.19 ON APR 18	0.0 ON MAR 1	228	1962
1963	---	0.714 ON MAR 29	0.0 ON MAR 1	408	1963
1964	---	0.281 ON APR 15	0.0 ON MAR 1	241	1964
1965	---	0.4808 ON APR 12	0.0 ON MAR 1	168	1965
1966	---	0.161 ON APR 22	0.0 ON MAR 1	238	1966
1967	---	1.27 B ON APR 17	0.0 ON MAR 1	1 090	1967
1968	---	0.1935 ON MAR 27	0.0 ON MAR 1	99.1	1968
1969	---	1.57 ON APR 13 *	0.0 ON MAR 1	1 620	1969
1970	---	0.6438 ON APR 12	0.0 ON MAR 1	589	1970
1971	---	0.558 ON JUN 9	0.0 ON MAR 1	447	1971
1972	---	0.388 ON APR 9	0.0 ON MAR 1	426	1972
1973	---	0.0148 ON MAR 9	0.0 ON MAR 1	3.80	1973
1974	---	0.915 ON APR 20	0.0 ON MAR 1	892	1974
1975	---	0.824 ON APR 28	0.0 ON MAR 1	1 140	1975
1976	---	1.48 ON APR 17	0.0 ON MAR 1	1 430	1976
				555	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAYES RIVER AT OUTLET OF OXFORD LAKE - STATION NO. 04AA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	15.6	24.3	37.0	40.5	34.7	18.1	9.52	6.84	4.41	---	1957
1958	4.58	4.84	5.88	8.89	14.6	26.2	27.6	28.3	25.0	30.1	32.1	26.6	19.5	1958
1959	21.6	22.2	24.5	30.5	74.2	141	185	111	147	141	110	91.7	89.4	1959
1960	75.1	60.6	48.6	48.7	72.2	93.6	80.7	58.4	43.7	35.1	25.5	17.8	55.1	1960
1961	14.2	12.3	11.7	17.0	40.7	46.1	38.1	27.5	23.7	25.0	26.3	---	---	1961
1962	---	---	---	---	37.6	58.4	48.6	29.5	26.6	29.7	27.5	---	---	1962
1963	---	---	---	---	87.6	93.5	89.2	41.2	29.0	25.8	18.3	12.1	---	1963
1964	9.80	9.15	9.05	9.22	36.4	87.2	60.5	26.3	25.4	18.4	22.0	---	---	1964
1965	---	---	---	31.4	55.7	110	126	68.2	65.6	55.4	58.5	48.2	---	1965
1966	36.7	28.6	24.3	23.4	41.5	115	180	108	76.5	59.5	49.1	39.6	65.6	1966
1967	35.4	29.3	30.3	23.9	34.3	102	130	68.5	43.0	34.9	27.0	27.6	53.1	1967
1968	28.1	19.5	24.3	26.1	38.3	65.1	91.1	68.5	73.1	78.9	70.6	54.6	56.4	1968
1969	46.1	44.9	57.3	57.7	68.7	98.3	63.3	34.2	40.8	83.9	81.0	58.1	61.8	1969
1970	48.9	42.4	41.8	42.3	48.5	82.3	74.7	67.8	58.1	65.4	71.9	68.4	58.8	1970
1971	65.4	61.4	64.3	62.2	71.0	72.1	81.6	63.7	45.7	38.8	40.2	49.7	65.3	1971
1972	60.4	51.6	41.8	43.7	71.2	80.6	66.2	54.4	43.3	38.6	28.2	18.1	49.3	1972
1973	13.6	10.6	15.6	33.6	36.7	48.9	48.9	44.8	39.7	41.7	42.8	27.3	33.8	1973
MEAN	36.6	30.6	29.3	29.8	48.4	80.3	77.6	58.6	48.8	46.2	41.8	38.3	53.3	MEAN

LOCATION - LAT 54 57 40 N DRAINAGE AREA, 8 420 km^2
LONG 95 18 10 W NATURAL FLOW

HAYES RIVER AT OUTLET OF OXFORD LAKE - STATION NO. 04AA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	43.0 ON JUL 25	---	---	1957
1958	---	34.5 ON NOV 11	4.53B ON JAN 1 *	813 000	1958
1959	---	189 ON JUL 6	21.1 B ON JAN 17	2 820 000	1959
1960	---	98.8 ON JUN 13	15.7 B ON DEC 31	1 740 000	1960
1961	50.4 AT 00:30 EST ON JUN 15	47.8 ON JUN 7	11.4 B ON APR 11	---	1961
1962	68.8 AT 00:30 EST ON JUN 30	81.2 ON JUN 28	---	---	1962
1963	---	100 ON JUN 8	---	---	1963
1964	---	83.3 ON JUN 8	---	---	1964
1965	---	138 ON JUN 28	---	---	1965
1966	---	200 ON JUL 13 *	22.7 B ON APR 8	2 070 000	1966
1967	---	181 ON JUN 22	16.4 B ON MAR 13	1 670 000	1967
1968	---	104 ON JUL 31	13.3 B ON FEB 18	1 790 000	1968
1969	---	89.8 ON OCT 18	23.2 B ON AUG 13	1 630 000	1969
1970	78.4 AT 02:43 CST ON JUL 14	78.2 ON JUL 14	40.5 B ON FEB 11	1 780 000	1970
1971	83.8 AT 17:02 CST ON JUN 1 *	82.1 ON JUN 1	32.6 B ON NOV 7	1 740 000	1971
1972	---	82.7E ON JUN 3	14.4 B ON DEC 14	1 580 000	1972
1973	84.4 AT 18:36 CST ON JUN 22	83.0 ON JUL 10	9.40B ON FEB 21	1 070 000	1973
				1 880 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAYES RIVER BELOW GODS RIVER - STATION NO. 04AB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	350	317	293	345	1 250	1 440	940	887	749	537	288	244	823	1974
1975	232	225	217	325	1 320	843	612	828	828	---	---	---	---	1975
1976	341	280	257	305	---	821	724	586	902	580	356	231	---	1976
1977	187	175	163	850	650	505	492	466	751	600	445	280	438	1977
1978	210	188	170	183	1 210	881	1 020	1 170	1 220	1 150	878	435	714	1978
1979	340	318	295	309	1 380	1 300	908	874	709	601	481	781	781	1979
1980	384	331	291	511	1 020	778	738	627	884	821	422	321	812	1980
1981	302	289	244	231	1 380	1 310	943	803	535	888	580	650	884	1981
1982	514	488	418	372	1 880	1 250	858	685	723	720	598	458	729	1982
1983	383	348	311	283	1 450	2 340	989	880	---	887	880	423	---	1983
1984	337	288	278	---	---	1 080	678	382	434	481	413	367	---	1984
MEAN	327	292	267	341	1 280	1 180	827	727	780	789	505	378	850	MEAN

LOCATION - LAT 58 25 55 N DRAINAGE AREA, 103 000 km^2
LONG 92 47 19 W NATURAL FLOW

HAYES RIVER BELOW GODS RIVER - STATION NO. 04AB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	1 870E ON JUN 10	235B ON DEC 31	19 800 000	1974
1975	---	---	---	---	1975
1976	---	---	1978 ON DEC 31	---	1976
1977	---	1 180B ON APR 25	157B ON MAR 31 *	13 800 000	1977
1978	---	2 320E ON MAY 15	165B ON MAR 23	22 600 000	1978
1979	---	2 520E ON MAY 27	278B ON APR 7	23 700 000	1979
1980	---	1 840B ON MAY 3	279B ON APR 3	19 400 000	1980
1981	---	2 910B ON MAY 19	226B ON APR 19	21 600 000	1981
1982	---	3 080B ON MAY 5	350B ON APR 27	23 000 000	1982
1983	---	4 230B ON MAY 28 *	280B ON MAY 15	---	1983
1984	---	---	---	---	1984
				20 600 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAYES RIVER BELOW TROUT FALLS - STATION NO. 04AA004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	28.1	21.1	23.4	37.4	82.7	98.7	80.6	65.6	53.0	47.8	41.1	30.3	49.1	1974
1975	15.9	16.6	16.4	24.1	46.0	56.6	46.4	38.1	33.6	34.4	31.6	19.6	31.8	1975
1976	16.7	14.3	13.2	21.6	26.3	21.6	19.3	19.6	23.0	19.8	18.0	12.3	18.6	1976
1977	11.2	10.7	12.0	24.4	43.4	64.2	41.4	37.4	36.6	43.3	40.0	28.7	31.1	1977
1978	20.3	17.6	16.6	20.8	46.8	47.3	41.6	---	---	47.4	47.2	38.7	---	1978
1979	28.6	22.6	18.3	16.4	80.7	158	128	78.4	61.6	44.6	47.2	38.1	67.1	1979
1980	30.7	26.0	24.3	33.1	42.2	36.4	28.3	26.3	36.8	80.1	46.1R	30.1R	34.3R	1980
1981	26.0	23.3	22.6	22.8	46.6	84.2	72.2	63.7	37.6	38.6	80.8	40.8	41.7	1981
1982	31.6	28.4	26.0	28.7	71.6	78.6	67.6	66.8	83.6	87.0	80.8	40.2	48.8	1982
1983	33.7	29.8	28.1	33.0	87.4	150	120	82.8	86.6	82.7	66.6	38.8	83.3	1983
1984	28.1	26.1	22.8	---	---	87.1	69.2	42.6	32.3	26.0	18.1	16.6	---	1984
MEAN	24.4	21.4	20.3	26.0	60.6	74.6	63.3	60.4	43.8	42.6	40.3R	30.3R	41.6	MEAN

LOCATION - LAT 54 51 23 N DRAINAGE AREA, 6 680 km^2
LONG 95 07 12 W NATURAL FLOW

R - REVISED SINCE JAN 1980

HAYES RIVER BELOW TROUT FALLS - STATION NO. 04AA004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	110 AT 14:30 CST ON JUN 30	104 ON JUN 29	19.8B ON FEB 18	1 550 000	1974
1975	83.4 AT 01:00 CST ON JUN 14	58.4 ON JUN 11	14.9B ON JAN 19	1 010 000	1975
1976	---	29.2 ON APR 23	11.8B ON DEC 30	585 000	1976
1977	52.4 AT 14:52 CST ON JUN 10	50.1 ON MAY 21	10.5B ON FEB 23 *	881 000	1977
1978	58.9 AT 18:20 CST ON NOV 1	57.8 ON NOV 1	18.5B ON MAR 3	---	1978
1979	178 AT 23:00 CST ON JUN 17 *	173 ON JUN 17 *	14.8B ON APR 27	1 800 000	1979
1980	87.8 AT 11:10 CST ON OCT 27	55.2 ON OCT 27	20.4 ON AUG 20	1 080 000R	1980
1981	88.1 AT 17:08 CST ON JUL 9	88.2 ON JUL 9	22.0B ON APR 18	1 320 000	1981
1982	86.2 AT 04:07 CST ON JUN 7	84.8 ON JUN 7	24.8B ON APR 8	1 880 000	1982
1983	158 AT 18:10 CST ON JUN 13	157 ON JUN 14	22.1B ON APR 23	2 000 000	1983
1984	71.6 ON JUN 23	71.0 ON JUN 23	---	---	1984
				1 320 000R	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

HESPELER FLOODWAY NEAR ROSENFELD - STATION NO. 05DC018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	1.62	0.883	0.305	0.028	0.025	2.12	1.77	0.085	---	---	0.813	1968
1969	---	---	0	14.3	0.408	0.582	1.50	0.028	0	0.008	---	---	2.07	1969
1970	---	---	0	18.2	4.78	4.62	2.13	0.280	0.008	0.027	---	---	3.45	1970
1971	---	---	0	21.8	0.188	0.311	0.077	0.008	0	0.008	---	---	2.78	1971
1972	---	---	1.54	3.58	0.233	0.047	0	0	0	0	---	---	0.869	1972
1973	---	---	0.873	0.028	0.002	0.152	0.001	0	0.274	0.034	---	---	0.133	1973
1974	---	---	0	47.8	18.4	0.353	0.007	0	0	0	---	---	7.88	1974
1975	---	---	0	2.26	0.508	0.236	0.188	0.001	0	0	---	---	0.381	1975
1976	---	---	0	10.1	0.033	0.187	0.008	0.003	0.008	0	---	---	1.27	1976
1977	---	---	0.038	0.288	0.022	0.088	0.015	0	0.138	0.070	---	---	0.082	1977
1978	---	---	0.033	2.82	0.508	0.793	0.213	0	0.048	0	---	---	0.508	1978
1979	---	---	0	38.4	4.31	0.748	0.257	0.007	0.037	0.188	---	---	5.52	1979
1980	---	---	0	1.28	0.482	0.052	0.038	0.043	0.041	0.008	---	---	0.242	1980
1981	---	---	0.418	0.038	0.288	0.128	0.002	0	0	0	---	---	0.108	1981
1982	---	---	1.14	6.31	0.071	3.51	0.130	0.028	0	0.211	---	---	1.40	1982
1983	---	---	1.38	9.80	0.082	0.206	0.081	0	0	0	---	---	1.40	1983
1984	---	---	0.278	0.381	0.015	0.132	0	0	0	0	---	---	0.100	1984
MEAN	---	---	0.407	10.4	1.88	0.715	0.274	0.148	0.138	0.037	---	---	1.70	MEAN

LOCATION - LAT 48 15 10 N
LONG 87 33 00 W NATURAL FLOW

HESPELER FLOODWAY NEAR ROSENFELD - STATION NO. 05DC018

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	17.6 B ON MAR 27	0B ON MAR 1 *	17 200	1968
1969	---	81.6 ON APR 11	0B ON MAR 1	43 800	1969
1970	---	88.6 ON APR 28	0B ON MAR 1	73 300	1970
1971	---	182 B ON APR 11	0B ON MAR 1	58 400	1971
1972	---	9.858 ON APR 15	0B ON MAR 1	14 200	1972
1973	---	8.29 ON SEP 24	0B ON MAR 1	2 820	1973
1974	---	354 ON APR 17	0B ON MAR 1	189 000	1974
1975	---	9.158 ON APR 17	0B ON MAR 1	8 280	1975
1976	---	65.6 B ON APR 8	0B ON MAR 1	26 900	1976
1977	---	1.278 ON APR 9	0B ON MAR 1	1 740	1977
1978	---	10.5 B ON APR 9	0B ON MAR 1	10 700	1978
1979	---	288 ON APR 20 *	0B ON MAR 1	117 000	1979
1980	14.4 AT 12:27 CST ON MAY 29	9.09 ON MAY 29	0B ON MAR 1	5 110	1980
1981	2.77 AT 01:55 CST ON MAY 28	2.23 ON MAY 28	0 ON APR 27	2 310	1981
1982	---	32.6 B ON APR 13	0B ON MAR 1	29 700	1982
1983	82.0 B AT 11:00 CST ON APR 7 *	53.4 B ON APR 7	0B ON MAR 1	28 800	1983
1984	---	3.41B ON MAR 28	0B ON MAR 1	2 110	1984
				38 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

HIDDEN ISLAND COULEE NEAR HANSBORO - STATION NO. 05DA005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	---	---	---	---	---	---	0	0	0	---	1961
1962	0	0	0	0.195	0.008	0.002	0	0	0	0	0	0	0.017	1962
1963	0	0	0.001	0	0	0.013	0	0	0	0	0	0	0.001	1963
1964	0	0	0	0.288	0.017	0.012	0.001	0.003	0.010	0.007	0	0	0.028	1964
1965	0	0	0	0.748	0.480	0.078	0.140	0.002	0	0	0	0	0.121	1965
1966	0	0	0.282	0.028	0.051	0.001	0.047	0.002	0	0	0	0	0.033	1966
1967	0	0	0.073	0.413	0.080	0	0	0	0	0	0	0	0.047	1967
1968	0	0	0.004	0.002	0.001	0	0	0	0	0	0	0	0.082	1968
1969	0	0	0	2.50	0.043	0.001	0.022	0.484	0.474	0.014	0.005	0.001	0.211	1969
1970	0	0	0.001	0.824	0.784	0.008	0.551	0.033	0.003	0	0	0	0.185	1970
1971	0	0	0	1.83	0.054	0.105	0.369	0.008	0	0	0	0	0.178	1971
1972	0	0	0.888	0.374	0.037	0.023	0.020	0.001	0	0	0	0	0.088	1972
1973	0	0	0.027	0.001	0.002	0.231	0.081	0	0.020	0.001	0	0	0.028	1973
1974	0	0	0	3.31	1.24	0.188	0	0	0	0	0	0	0.382	1974
1975	0	0	0	2.01	0.288	0.018	0.001	0	0	0	0	0	0.189	1975
1976	0	0	0.204	1.54	0.023	0	0	0	0	0	0	0	0.148	1976
1977	0	0	0	0.001	0	0	0	0	0	0	0	0	0	1977
1978	0	0	0	0.708	0.012	0	0	0	0	0	0	0	0.058	1978
1979	0	0	0	2.80	0.448	0.018	0	0	0	0	0	0	0.254	1979
1980	0	0	0	0.177	0.001	0	0	0	0.030	0.030	0.018	0	0.021	1980
1981	0	0.321	0.137	0.008	0.052	0.054	0.001	0	0	0	0	0	0.047	1981
1982	0	0	0.130	0.522	0.180	0.007	0	0	0	0.003	0.003	0.038	0.070	1982
1983	0	0	0.080	0.889	0.082	0.005	0.037	0	0	0	0	0	0.089	1983
1984	0	0	0.238	0.131	0.183	0	0	0	0	0	0	0	0.047	1984
MEAN	0	0.014	0.080	0.820	0.178	0.032	0.083	0.023	0.023	0.002	0.001	0.001	0.102	MEAN

LOCATION - LAT 48 57 10 N LONG 99 25 35 W DRAINAGE AREA, 88.1 km² NATURAL FLOW INTERNATIONAL GAUGING STATION

HIDDEN ISLAND COULEE NEAR HANSBORO - STATION NO. 05DA005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)		MAXIMUM DAILY DISCHARGE (m³/s)		MINIMUM DAILY DISCHARGE (m³/s)		TOTAL DISCHARGE (dam³)	YEAR
1961	---		---		0	ON OCT 1 *	---	1961
1962	1.13	ON APR 8	0.881	ON APR 8	0	ON JAN 1	638	1962
1963	0.252 AT 19:30 CST	ON JUL 25	0.074	ON JUN 26	0	ON JAN 1	37.1	1963
1964	0.9088	ON APR 9	0.8508	ON APR 9	0	ON JAN 1	832	1964
1965	3.81 AT 03:00 CST	ON APR 11	3.26	ON APR 11	0	ON JAN 1	3 810	1965
1966	1.87 B AT 20:00 CST	ON MAR 14	1.38 B	ON MAR 15	0	ON JAN 1	1 050	1966
1967	3.82 AT 10:00 CST	ON APR 21	2.44	ON APR 21	0B	ON JAN 1	1 480	1967
1968	9.17 AT 14:30 CST	ON AUG 24	3.82	ON AUG 26	0B	ON JAN 1	2 800	1968
1969	19.8 B	ON APR 12	17.0 B	ON APR 12	0B	ON JAN 1	8 870	1969
1970	8.88 AT 11:30 CST	ON APR 29	8.04	ON APR 29	0B	ON JAN 1	5 860	1970
1971	18.0 AT 23:00 CST	ON APR 10	10.5	ON APR 10	0	ON JAN 1	5 800	1971
1972	10.0 AT 20:00 CST	ON MAR 18	4.47	ON MAR 17	0	ON JAN 1	3 030	1972
1973	1.47 AT 08:00 CST	ON JUN 20	1.27	ON JUN 21	0	ON JAN 1	870	1973
1974	30.0 AT 08:00 CST	ON APR 21	23.8	ON APR 21	0	ON JAN 1	12 400	1974
1975	11.5 AT 22:00 CST	ON APR 28	9.91	ON APR 14	0	ON JAN 1	5 870	1975
1976	9.34 AT 23:00 CST	ON APR 1	8.23	ON MAR 31	0	ON JAN 1	4 610	1976
1977	---		0.0038	ON APR 9	0B	ON JAN 1	2.33	1977
1978	---		4.25 B	ON APR 6	0B	ON JAN 1	1 870	1978
1979	34.0 B AT 10:50 CST	ON APR 23 *	28.3 B	ON APR 23 *	0B	ON JAN 1	8 000	1979
1980	2.55 AT 23:15 CST	ON APR 3	1.84	ON APR 4	0B	ON JAN 1	858	1980
1981	2.88 B AT 20:45 CST	ON FEB 21	1.81 B	ON FEB 21	0B	ON JAN 1	1 470	1981
1982	---		2.61	ON MAR 31	0B	ON JAN 1	2 210	1982
1983	4.38 B AT 11:30 CST	ON APR 2	2.27 B	ON APR 6	0B	ON JAN 1	2 800	1983
1984	7.48 AT 19:15 CST	ON MAR 24	2.01	ON MAR 24	0	ON JAN 1	1 470	1984
							3 210	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ICELANDIC RIVER NEAR RIVERTON - STATION NO. 05SC002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	---	0.243	3.20	0.268	0.281	0.458	---	---	---	1958
1959	---	---	0.008	13.8	11.2	3.81	0.831	0.381	0.354	1.54	---	---	3.98	1959
1960	---	---	0.198	34.3	7.20	1.48	0.395	0.354	0.348	0.405	---	---	5.50	1960
1961	---	---	1.13	5.50	1.50	0.380	0.191	0.113	0.295	0.335	---	---	1.17	1961
1962	---	---	0.074	7.74	2.30	1.88	0.288	0.638	0.304	0.529	---	---	1.69	1962
1963	---	---	1.33	14.1	2.80	18.5	1.44	0.597	0.487	0.462	---	---	4.87	1963
1964	---	---	0.212	4.74	3.03	1.04	0.383	0.486	0.481	0.521	---	---	1.23	1964
1965	---	---	0.081	8.12	4.48	2.35	0.833	0.408	0.533	0.454	---	---	1.89	1965
1966	---	---	0.274	4.61	4.47	0.714	0.595	0.253	0.273	0.270	---	---	1.41	1966
1967	---	---	0.187	18.6	3.41	0.897	0.484	0.298	0.180	0.287	---	---	2.87	1967
1968	---	---	0.487	5.50	1.32	0.823	1.22	0.870	1.81	1.01	---	---	1.57	1968
1969	---	---	0.245	15.5	1.77	1.20	0.430	0.385	0.478	0.486	---	---	2.52	1969
1970	---	---	0.159	10.1	4.28	0.871	0.380	0.240	0.218	0.252	---	---	2.04	1970
1971	---	---	0.125	5.88	0.482	0.413	0.428	0.200	0.177	0.228	---	---	0.978	1971
1972	---	---	0.127	10.2	0.741	0.331	0.338	0.283	0.223	0.235	---	---	1.84	1972
1973	---	---	1.87	0.887	0.383	1.59	0.436	0.588	2.82	3.41	---	---	1.41	1973
1974	---	---	0.287	49.8	21.5	2.40	0.351	0.388	0.310	0.351	---	---	9.32	1974
1975	---	---	0.183	6.81	1.18	0.587	0.387	8.40	8.92	3.57	---	---	3.71	1975
1976	---	---	0.274	41.7	2.32	1.01	0.488	0.213	0.174	0.192	---	---	5.70	1976
1977	---	---	0.091	0.883	0.497	0.618	0.755	0.232	1.79	0.888	---	---	0.739	1977
1978	---	---	0.222	24.7	1.98	0.941	0.583	0.306	0.329	0.334	---	---	3.82	1978
1979	---	---	0.184	30.3	11.1	3.83	0.789	0.312	0.438	0.304	---	---	5.81	1979
1980	---	---	0.207	7.42	0.480	0.264	0.225	0.553	1.02	1.02	---	---	1.38	1980
1981	---	---	1.28	1.06	0.809	0.757	0.288	0.459	1.25	1.98	---	---	0.951	1981
1982	---	---	0.540	9.83	1.87	1.59	1.82	1.18	0.378	0.723	---	---	2.19	1982
1983	---	---	0.188	13.9	0.991	2.45	1.17	0.178	0.144	0.265	---	---	2.37	1983
1984	---	---	0.410	2.87	1.08	1.28	0.307	0.204	0.229	0.602	---	---	0.838	1984
MEAN	---	---	0.388	13.2	3.62	1.91	0.701	0.727	0.820	0.785	---	---	2.75	MEAN

LOCATION - LAT 50 57 35 N DRAINAGE AREA, 1 140 km²
LONG 97 02 10 W NATURAL FLOW

ICELANDIC RIVER NEAR RIVERTON - STATION NO. 05SC002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1958	---	---	---	---	1958
1959	---	38.6 B ON APR 12	0 B ON MAR 1 *	83 800	1959
1960	---	104 ON APR 21	0.057 ON AUG 15	118 000	1960
1961	---	15.1 ON APR 22	0.071 ON MAR 1	24 700	1961
1962	---	48.8 B ON APR 22	0.0718 ON MAR 1	35 400	1962
1963	---	73.6 B ON APR 9	0.1428 ON MAR 1	103 000	1963
1964	---	18.7 B ON APR 16	0.204 ON AUG 9	28 000	1964
1965	---	34.3 B ON APR 14	0.0578 ON MAR 1	40 100	1965
1966	---	20.6 ON MAY 5	0.1108 ON MAR 1	30 000	1966
1967	---	83.3 B ON APR 16	0.081 ON JUL 28	82 800	1967
1968	---	16.0 B ON APR 8	0.1818 ON MAR 1	33 300	1968
1969	---	85.0 B ON APR 13	0.1708 ON APR 7	83 300	1969
1970	---	35.7 B ON APR 18	0.1388 ON APR 6	43 300	1970
1971	---	41.3 ON APR 18	0.1258 ON MAR 1	20 700	1971
1972	---	48.0 B ON APR 16	0.007 ON AUG 19	32 800	1972
1973	---	18.1 ON OCT 6	0.002 ON MAY 19	28 800	1973
1974	---	203 ON APR 20 *	0.181 ON AUG 10	197 000	1974
1975	---	52.1 ON AUG 28	0.1428 ON MAR 1	78 500	1975
1976	---	123 ON APR 8	0.110 ON OCT 30	120 000	1976
1977	---	5.89 ON SEP 10	0.0088 ON MAR 1	15 800	1977
1978	---	82.7 ON APR 16	0.181 ON AUG 29	78 500	1978
1979	---	155 ON APR 23	0.1388 ON MAR 1	123 000	1979
1980	34.1 AT 20:52 CST ON APR 15	22.7 B ON APR 15	0.035 ON MAY 28	28 200	1980
1981	5.89 AT 20:45 CST ON SEP 7	5.128 ON MAR 31	0.0728 ON MAR 10	20 100	1981
1982	51.6 AT 21:00 CST ON APR 16	45.1 ON APR 16	0.223 ON SEP 17	48 600	1982
1983	65.3 B AT 22:50 CST ON APR 7 *	55.5 B ON APR 7	0.122 ON SEP 13	50 200	1983
1984	9.778 AT 15:48 CST ON APR 4	8.888 ON APR 7	0.0418 ON MAR 18	17 700	1984
				58 100	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1933	---	16.7	15.1	14.4	48.2	74.7	87.2	53.8	43.7	44.5	53.8	58.0	---	1933
1934	53.8	49.5	42.3	39.1	70.9	211	207	141	103	107	104	85.7	101	1934
1935	71.8	59.9	50.7	48.2	84.8	98.5	87.8	70.4	58.0	80.3	111	89.8	78.4	1935
1936	79.9	61.6	50.5	39.8	38.5	110	154	109	77.0	85.1	87.8	82.5	74.8	1936
1937	65.4	38.9	33.7	31.4	124	252	231	157	113	107	112	103	113	1937
1938	82.0	68.3	56.0	47.5	98.0	145	157	135	104	78.2	80.8	83.4	80.2	1938
1939	65.4	38.2	32.8	29.3	38.6	82.8	145	124	89.9	73.7	86.8	82.5	89.4	1939
1940	58.1	47.3	39.3	33.9	59.3	87.7	89.7	73.8	55.5	80.7	49.8	47.3	57.5	1940
1941	44.0	40.7	37.8	38.0	115	182	141	101	88.1	88.6	67.9	42.0	74.6	1941
1942	40.0	38.2	36.5	37.4	55.8	88.8	73.7	85.1	82.1	80.7	89.4	82.3	61.8	1942
1943	65.3	49.7	40.8	35.3	71.5	107	108	89.0	82.5	84.9	74.8	65.7	72.2	1943
1944	58.0	48.1	39.1	32.4	43.3	84.4	70.8	67.0	71.0	81.2	78.4	70.7	59.4	1944
1945	61.6	53.2	44.5	43.1	98.4	148	217	187	139	121	108	82.8	107	1945
1946	70.8	58.7	48.3	48.8	81.9	111	148	182	120	86.5	87.4	74.0	93.5	1946
1947	65.7	56.7	48.8	37.6	62.4	188	237	188	184	153	127	98.8	118	1947
1948	80.6	63.2	51.6	42.5	58.1	59.7	63.7	53.2	43.4	32.7	26.8	25.3	49.4	1948
1949	23.7	22.8	20.4	20.2	43.2	74.3	87.2	84.4	110	193	206	174	89.5	1949
1950	134	88.8	74.6	59.7	75.7	177	218	212	158	122	108	81.5	128	1950
1951	74.8	61.9	52.7	47.3	89.5	124	117	128	147	187	153	119	108	1951
1952	88.0	68.3	54.6	52.2	108	184	219	233	211	191	188	139	142	1952
1953	104	78.0	63.4	54.7	80.6	125	225	186	128	98.8	88.9	82.0	110	1953
1954	72.4	60.9	50.8	41.8	52.5	105	125	101	77.1	72.1	73.0	70.9	75.3	1954
1955	63.2	54.5	46.5	50.0	123	186	173	155	122	114	108	98.1	106	1955
1956	61.3	56.5	57.9	48.4	59.1	158	149	98.9	89.8	84.4	59.3	62.0	80.4	1956
1957	58.2	50.9	48.3	41.8	99.7	138	189	136	102	78.8	81.1	62.0	86.1	1957
1958	44.9	38.9	35.5	43.0	82.9	125	115	104	85.0	76.1	77.5	79.1	76.9	1958
1959	70.4	59.1	48.5	43.1	141	284	278	203	144	115	101	87.6	132	1959
1960	73.5	62.0	51.4	46.3	73.4	144	122	83.5	75.0	68.0	59.5	54.3	78.0	1960
1961	45.5	37.4	31.8	30.0	45.5	80.3	84.7	44.9	35.8	31.7	28.8	43.2	41.7	1961
1962	42.3	37.2	31.5	28.2	80.1	119	103	73.5	59.8	55.8	58.8	60.3	60.7	1962
1963	58.1	51.9	46.9	44.3	95.8	184	145	102	88.0	75.7	85.3	59.0	83.3	1963
1964	52.2	44.3	40.8	39.1	114	187	123	91.8	89.9	86.7	82.1	48.3	74.4	1964
1965	44.7	37.1	33.5	33.8	74.3	---	---	---	---	178	158	142	---	1965
1966	131	123	89.3	88.0	97.2	189	201	157	128	103	91.2	81.1	123	1966
1967	68.4	60.5	48.3	48.6	87.4	274	280	205	132	84.9	76.2	66.3	119	1967
1968	62.2	56.5	45.4	36.5	65.8	184	181	181	158	141	128	111	113	1968
1969	68.9	59.2	58.5	52.9	78.5	89.5	82.8	97.5	147	222	209	183	113	1969
1970	123	84.2	69.2	57.3	84.3	117	155	136	104	105	128	128	109	1970
1971	108	87.5	71.5	65.2	140	180	189	139	95.1	89.9	85.1	80.9	104	1971
1972	65.5	47.6	40.6	36.7	94.2	128	107	87.8	68.2	57.2	52.7	49.4	68.5	1972
1973	46.3	41.7	37.7	36.3	87.2	146	164	122	85.3	84.2	95.2	80.9	88.0	1973
1974	72.9	63.0	59.3	52.3	78.2	133	118	108	84.0	89.5	81.8	67.6	80.0	1974
1975	58.0	53.0	47.8	42.8	73.5	147	144	135	134	130	108	88.2	87.1	1975
1976	75.7	63.4	53.5	49.4	57.0	---	---	---	---	40.5	30.9	29.5	---	1976
1977	30.5	30.2	29.7	31.6	51.8	87.8	58.2	74.2	78.4	61.4	73.4	66.6	55.5	1977
1978	57.3	50.0	44.5	45.3	67.6	81.5	78.7	77.2	75.7	103	132	122	78.1	1978
1979	86.0	75.1	62.4	57.2	102	210	208	178	128	113	118	107	121	1979
1980	88.6	74.2	63.0	---	---	---	72.7	58.5	52.4	60.8	63.9	60.5	---	1980
1981	55.8	48.2	42.8	38.3	47.6	84.6	85.2	77.8	61.2	63.8	76.2	78.8R	61.4R	1981
1982	70.8	61.8	54.1	---	---	128	132	128	104	87.8	82.0	81.4	---	1982
1983	77.0	68.4	58.5	52.0	108	188	188	158	108	83.4	77.0	72.7	104	1983
1984	65.7	58.8	50.9	51.1	85.2	112	118	92.5	85.6	87.1	82.4	84.6	72.1	1984
MEAN	68.0	58.8	47.8	43.3	78.8	135	143	121	98.5	92.8	88.3	78.2R	89.2	MEAN

LOCATION - LAT 54 03 34 N DRAINAGE AREA, 14 000 km²
LONG 94 39 34 W NATURAL FLOW

R - REVISED SINCE JAN 1980

ISLAND LAKE RIVER NEAR ISLAND LAKE - STATION NO. 04AC007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1933	---	76.7 ON JUN 20	13.7 ON APR 10 *	---	1933
1934	---	227 ON JUN 19	37.9 ON APR 12	3 200 000	1934
1935	---	114 ON NOV 22	43.6 ON APR 18	2 470 000	1935
1936	---	184 ON JUL 7	29.4 ON MAY 24	2 380 000	1936
1937	---	273 ON JUN 28	26.9 ON APR 14	3 680 000	1937
1938	---	182 ON JUL 7	46.4 ON APR 13	2 650 000	1938
1939	---	167 ON JUL 18	28.1 ON APR 20	2 190 000	1939
1940	---	95.7 ON JUN 29	32.0 ON APR 22	1 820 000	1940
1941	---	172 ON JUN 7	34.0 ON APR 15	2 350 000	1941
1942	---	95.7 ON AUG 28	35.1 ON APR 5	1 850 000	1942
1943	---	111 ON JUN 21	31.1 ON APR 19	2 270 000	1943
1944	---	84.4 ON OCT 16	29.7 ON APR 23	1 880 000	1944
1945	---	224 ON JUL 19	42.2 ON MAR 23	3 380 000	1945
1946	---	178 ON JUL 30	43.6 ON APR 7	2 850 000	1946
1947	---	248 ON JUL 11	33.7 ON APR 28	3 710 000	1947
1948	---	86.9 ON JAN 1	24.3E ON DEC 31	1 580 000	1948
1949	---	218 ON OCT 30	18.9 ON APR 8	2 820 000	1949
1950	---	242 ON JUL 30	54.9 ON MAY 4	4 030 000	1950
1951	---	174 ON OCT 17	46.2 ON APR 22	3 410 000	1951
1952	---	247 ON AUG 4	46.7 ON APR 14	4 490 000	1952
1953	---	238 ON JUL 16	51.5 ON APR 22	3 470 000	1953
1954	---	128 ON JUL 7	37.4 ON MAY 7	2 370 000	1954
1955	---	183 ON JUL 19	41.9 ON APR 8	3 330 000	1955
1956	---	172 ON JUN 26	43.3 ON MAY 2	2 540 000	1956
1957	---	177 ON JUL 13	37.7 ON APR 19	2 710 000	1957
1958	---	129 ON JUN 18	33.4 ON MAR 30	2 390 000	1958
1959	---	300 ON JUN 30 *	41.3 ON APR 25	4 150 000	1959
1960	---	152 ON JUN 18	43.9 ON MAY 3	2 400 000	1960
1961	---	82.0 ON JUN 11	29.4 ON APR 18	1 310 000	1961
1962	---	126 ON JUN 18	27.4 ON APR 28	1 920 000	1962
1963	---	179 ON JUN 26	43.3 ON MAR 28	2 630 000	1963
1964	---	186 ON JUN 2	37.7 ON APR 9	2 350 000	1964
1965	---	---	32.8 ON MAR 22	---	1965
1966	---	212 ON JUL 5	75.3 ON DEC 30	3 870 000	1966
1967	---	282 E ON JUN 19	45.0 ON MAR 24	3 780 000	1967
1968	---	186 ON AUG 2	35.7 ON APR 15	3 570 000	1968
1969	237 AT 15:58 CST ON OCT 23 *	237 ON OCT 23	48.1 ON APR 14	3 570 000	1969
1970	185 AT 06:48 CST ON JUL 26	184 ON JUL 21	54.7 ON APR 22	3 420 000	1970
1971	---	187 ON JUN 6	59.5E ON DEC 21	3 280 000	1971
1972	138 AT 21:36 CST ON JUN 13	135 ON JUN 16	32.3 ON APR 14	2 170 000	1972
1973	160 AT 23:30 CST ON JUL 11	158 ON JUL 9	35.1 ON APR 3	2 710 000	1973
1974	140 AT 03:50 CST ON JUN 21	138 ON JUN 16	49.5 ON APR 25	2 520 000	1974
1975	185 AT 01:11 CST ON JUN 27	184 ON JUN 25	41.1 ON APR 18	3 080 000	1975
1976	---	---	---	---	1976
1977	83.0 AT 17:49 CST ON SEP 18	83.0 ON OCT 8	29.4E ON APR 5	1 750 000	1977
1978	137 AT 20:17 CST ON NOV 16	135 ON NOV 16	43.0 ON MAR 23	2 480 000	1978
1979	235 AT 18:30 CST ON JUN 27	228 ON JUN 28	53.5 ON APR 15	3 830 000	1979
1980	---	---	---	---	1980
1981	---	88.8E ON JUL 19	36.9 ON APR 19	1 940 000R	1981
1982	140 AT 18:30 CST ON JUN 23	138 ON JUN 23	---	---	1982
1983	208 AT 13:48 CST ON JUL 16	202 ON JUL 15	48.5 ON APR 20	3 280 000	1983
1984	125 AT 08:44 CST ON JUN 30	124 ON JUN 28	44.8 ON APR 5	2 280 000	1984
				2 810 000R	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

JACKFISH CREEK AT OUTLET OF MOON LAKE - STATION NO. 05MF022

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	---	---	0.378	0.388	0.004	0	0.003	0.003	0	0	---	1983
1984	0.007	0.011	0.011	0.308	0.448	0.003	0	0	0	0	0	0	0.088	1984
1985	0	0	0	0.087	0.638	0.253	0.020	0.183	0.531	0.192	0.081	0.054	0.187	1985
1986	0.030	0.027	0.026	0.223	0.810	0.281	0.104	0.038	0.013	0	0	0	0.130	1986
1987	0	0	0	0	0.638	0.085	0.014	0.003	0	0.001	0.005	0.007	0.085	1987
1988	0	0	0	0	0.397	0.293	0.278	0.084	0.414	0.655	0.048	0.033	0.134	1988
1989	0.022	0.027	0.028	0.178	0.177	0.458	0.782	0.068	0.028	0.037	0.082	0.029	0.159	1989
1990	0	0	0	0	1.18	0.301	0.150	0.018	0.028	0.083	0.288	0.111	0.179	1990
MEAN	0.008	0.009	0.008	0.108	0.585	0.248	0.189	0.051	0.127	0.044	0.085	0.029	0.128	MEAN

LOCATION - LAT 50 52 20 N LONG 100 02 48 W DRAINAGE AREA, 18.8 km^2 NATURAL FLOW

JACKFISH CREEK AT OUTLET OF MOON LAKE - STATION NO. 05MF022

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	0E ON AUG 1 *	---	1963
1964	---	1.77 ON APR 28	0 ON JUL 1	2 070	1964
1965	---	1.38 ON MAY 2	0E ON JAN 1	5 270	1965
1966	---	1.30 ON MAY 18	0E ON SEP 23	4 100	1966
1967	---	1.83 ON MAY 20	0E ON JAN 1	2 040	1967
1968	---	2.34 ON MAY 25	0E ON JAN 1	4 220	1968
1969	---	2.80E ON JUN 29 *	0 ON MAY 7	5 010	1969
1970	---	2.29 ON MAY 18	0E ON JAN 1	5 840	1970
				4 050	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

JACKSON CREEK NEAR MELITA - STATION NO. 05NF015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1938	---	---	---	---	0.058	---	---	---	---	---	---	---	---	1938
1975	---	---	0	2.88	1.86	0.713	0.085	0	0.052	0.550	---	---	0.737	1975
1976	---	---	0.005	15.9	0.915	0.044	0.027	0	0	0	---	---	2.20	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.008	0	0	0	0	0	0	---	---	0.001	1978
1979	---	---	0	0.244	0.343	0.003	0	0	0	0	---	---	0.074	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.173	0.008	0	0	0	0	0	---	---	0.022	1982
1983	---	---	0.022	0.891	0.086	0.003	0	0	0	0	---	---	0.121	1983
1984	---	---	0	0	0.002	0	0	0	0	0	---	---	0	1984
MEAN	---	---	0.003	2.09	0.288	0.076	0.011	0	0.005	0.055	---	---	0.318	MEAN

LOCATION - LAT 49 18 00 N DRAINAGE AREA, 451 km^2
LONG 100 57 50 W NATURAL FLOW

JACKSON CREEK NEAR MELITA - STATION NO. 05NF015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1938	---	---	---	---	1938
1975	---	10.8 ON APR 29	0B ON MAR 1 *	15 600	1975
1976	---	38.2 B ON APR 11 *	0 ON JUL 21	48 800	1976
1977	---	0 B ON MAR 1	0B ON MAR 1	0	1977
1978	---	0.0459 ON APR 10	0B ON MAR 1	18.7	1978
1979	2.15 AT 06:00 CST ON APR 22	1.84 ON APR 22	0B ON MAR 1	1 580	1979
1980	---	0 B ON MAR 1	0B ON MAR 1	0	1980
1981	---	0 B ON MAR 1	0B ON MAR 1	0	1981
1982	0.954 AT 10:00 CST ON APR 17	0.783 ON APR 17	0B ON MAR 1	472	1982
1983	3.35 B AT 07:34 CST ON APR 13 *	1.85 B ON APR 13	0B ON MAR 1	2 550	1983
1984	0.019 AT 12:48 CST ON MAY 7	0.012 ON MAY 8	0B ON MAR 1	4.93	1984
				8 880	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

JORDAN CREEK NEAR PLUMAS - STATION NO. 05LL008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	1.71	0.548	0.038	0	0	0	0	---	---	0.283	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0.382	0.172	0.073	0	0	0	0	---	---	0.078	1962
1963	---	---	0.017	0.327	0.063	0.381	0.046	0	0	0	---	---	0.100	1963
1964	---	---	0	0.048	0.021	0.001	0	0	0	0	---	---	0.008	1964
1965	---	---	0	1.36	0.187	0.074	0.002	0	0.042	0.012	---	---	0.202	1965
1966	---	---	0.253	1.06	0.333	0.028	0.003	0.001	0	0	---	---	0.208	1966
1967	---	---	0	1.21	0.811	0.021	0	0	0	0	---	---	0.253	1967
1968	---	---	0.022	0.020	0.010	0.001	0	0.018	0.038	0.002	---	---	0.013	1968
1969	---	---	0	1.83	0.188	0.059	0.276	0.131	0.043	0.038	---	---	0.318	1969
1970	---	---	0	2.79	2.70	0.158	0.017	0	0	0	---	---	0.705	1970
1971	---	---	0	0.158	0.029	0.841	0.903	0.078	0.003	0.080	---	---	0.259	1971
1972	---	---	0.198	1.82	0.152	0.013	0	0	0	0	---	---	0.232	1972
1973	---	---	0.010	0.001	0.005	0.002	0	0	0	0	---	---	0.002	1973
1974	---	---	0	2.47	2.58	0.154	0	0	0	0	---	---	0.648	1974
1975	---	---	0	0.222	0.130	0.018	0.058	0.124	0.722	0.438	---	---	0.212	1975
1976	---	---	0	4.30	0.227	0.001	0.008	0	0	0	---	---	0.558	1976
1977	---	---	0	0	0.001	0	0.001	0	0.001	0.001	---	---	0.001	1977
1978	---	---	0	0.155	0.028	0.009	0.002	0	0	0	---	---	0.024	1978
1979	---	---	0	2.07	2.50	0.113	0.002	0	0	0	---	---	0.584	1979
1980	---	---	0	0.028	0	0	0	0.007	0.008	0.012	---	---	0.007	1980
1981	---	---	0.002	0.004	0.008	0.035	0.015	0	0	0.004	---	---	0.008	1981
1982	---	---	0.084	0.587	0.041	0.021	0.008	0.005	0	0.003	---	---	0.090	1982
MEAN	---	---	0.025	0.868	0.468	0.088	0.058	0.018	0.037	0.025	---	---	0.208	MEAN

LOCATION - LAT 50 23 25 N DRAINAGE AREA, 49.7 km^2
LONG 99 02 44 W NATURAL FLOW

JORDAN CREEK NEAR PLUMAS - STATION NO. 05LL005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	5.85 ON APR 15	0B ON MAR 1 *	5 990	1980
1981	---	0 ON MAR 1	0 ON MAR 1	0	1981
1982	---	2.02 B ON APR 21	0B ON MAR 1	1 660	1982
1983	---	1.60 ON JUN 10	0B ON MAR 1	2 120	1983
1984	---	0.2848 ON APR 11	0B ON MAR 1	177	1984
1985	---	4.73 B ON APR 13	0B ON MAR 1	4 270	1985
1986	---	4.84 B ON APR 1	0B ON MAR 1	4 360	1986
1987	---	3.48 ON APR 28	0B ON MAR 1	5 350	1987
1988	---	0.3238 ON MAR 28	0B ON MAR 1	284	1988
1989	---	6.40 ON APR 11	0B ON MAR 1	5 680	1989
1970	---	10.5 ON APR 29	0B ON MAR 1	16 900	1970
1971	---	3.06 ON JUN 21	0B ON MAR 1	5 480	1971
1972	---	4.33 B ON APR 13	0B ON MAR 1	4 920	1972
1973	---	0.0318 ON MAR 20	0B ON MAR 1	45.9	1973
1974	---	11.0 ON APR 18 *	0B ON MAR 1	13 700	1974
1975	---	3.34 ON SEP 20	0B ON MAR 1	4 480	1975
1976	---	10.8 B ON APR 7	0B ON MAR 1	11 700	1976
1977	---	0.008 ON JUL 18	0B ON MAR 1	10.7	1977
1978	---	0.5078 ON APR 15	0B ON MAR 1	506	1978
1979	8.16 AT 03:00 CST ON APR 30 *	7.89 ON APR 30	0B ON MAR 1	12 400	1979
1980	0.118 AT 11:27 CST ON AUG 23	0.085 ON APR 17	0B ON MAR 1	144	1980
1981	---	0.104 ON JUN 28	0B ON MAR 1	178	1981
1982	---	1.36 B ON APR 18	0B ON MAR 1	1 900	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		4 400	MEAN

JOUBERT CREEK AT ST. PIERRE-JOLYS - STATION NO. 05OE007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.478	14.8	8.14	2.89	3.85	0.535	3.02	0.261	---	---	4.33	1966
1967	---	---	0.318	16.2	7.11	0.407	0.077	0.034	0.008	0.042	---	---	2.89	1967
1968	---	---	0.140	0.481	0.570	0.506	0.832	0.865	1.07	0.264	---	---	0.577	1968
1969	---	---	0.092	7.78	1.94	0.333	0.178	0.064	0.048	0.057	---	---	1.29	1969
1970	---	---	0.028	6.75	12.9	5.25	0.239	0.042	0.055	0.118	---	---	3.16	1970
1971	---	---	0	3.02	0.815	0.058	0.030	0.018	0.003	0.058	---	---	0.494	1971
1972	---	---	0.278	0.670	0.334	0.084	0.010	0.019	0.007	0.051	---	---	0.180	1972
1973	---	---	0.257	0.124	0.095	0.044	0.019	0.002	0.020	0.153	---	---	0.095	1973
1974	---	---	0	11.1	13.1	3.84	0.193	0.038	0.018	0.044	---	---	3.54	1974
1975	---	---	0.083	0.258	0.277	0.417	1.02	0.017	0.007	0.016	---	---	0.262	1975
1976	---	---	0.008	0.547	0.088	0.199	0.010	0	0	0	---	---	0.104	1976
1977	---	---	0.037	0.131	0.033	0.026	0.008	0.003	0.007	0.025	---	---	0.033	1977
1978	---	---	0.131	2.48	0.674	0.081	0.026	0.001	0	0	---	---	0.415	1978
1979	---	---	0.009	3.18	3.08	1.31	0.183	0.024	0.019	0.038	---	---	0.869	1979
1980	---	---	0.080	1.08	0.073	0.002	0	0.001	0.002	0.031	---	---	0.150	1980
1981	---	---	0.147	0.188	0.128	0.048	0.027	0.002	0.001	0.100	---	---	0.080	1981
1982	---	---	0.208	3.20	0.828	1.48	1.87	0.371	0.020	0.741	---	---	1.07	1982
1983	---	---	1.85	8.78	0.703	0.348	0.382	0.008	0.020	0.018	---	---	1.09	1983
1984	---	---	0.272	0.801	0.138	0.871	0.384	0.023	0.004	0.028	---	---	0.288	1984
MEAN	---	---	0.217	4.11	2.74	0.971	0.484	0.088	0.226	0.108	---	---	1.11	MEAN

LOCATION - LAT 49 28 26 N DRAINAGE AREA, 311 km^2
LONG 98 59 23 W NATURAL FLOW

REMARKS - PUBLISHED AS "JOUBERT CREEK AT ST. PIERRE" PRIOR TO 1979

JOUBERT CREEK AT ST. PIERRE-JOLYS - STATION NO. 05OE007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	28.3 ON APR 7	0 B ON MAR 1 *	91 800	1966
1967	---	27.2 ON APR 22	0 B ON MAR 1	83 300	1967
1968	---	4.16 ON MAY 15	0 B ON MAR 1	12 200	1968
1969	---	15.9 ON APR 19	0.028 ON AUG 18	27 300	1969
1970	---	19.5 ON APR 28	0.0288 ON MAR 1	86 900	1970
1971	---	6.62 B ON APR 12	0 B ON MAR 1	10 400	1971
1972	---	1.88 B ON APR 18	0 B ON MAR 1	3 800	1972
1973	---	1.54 B ON MAR 13	0 B ON MAR 1	2 010	1973
1974	---	34.8 ON APR 23 *	0 B ON MAR 1	75 000	1974
1975	---	8.38 ON JUL 1	0.002 ON SEP 17	8 550	1975
1976	---	3.98 B ON APR 6	0 B ON MAR 1	2 210	1976
1977	---	0.4308 ON MAR 30	0 ON JUL 1	701	1977
1978	---	5.38 B ON APR 10	0 ON AUG 8	6 780	1978
1979	18.4 AT 17:48 CST ON APR 20 *	15.4 ON APR 20	0 ON AUG 15	20 500	1979
1980	4.02 AT 17:02 CST ON APR 5	3.38 B ON APR 5	0 ON JUN 13	3 170	1980
1981	0.884 AT 04:03 CST ON MAY 28	0.864 ON MAY 28	0 ON JUN 12	1 850	1981
1982	---	8.80 B ON APR 18	0 ON OCT 2	22 700	1982
1983	14.1 B AT 05:10 CST ON APR 8	12.8 B ON APR 8	0 ON JUL 24	23 000	1983
1984	2.84 AT 05:02 CST ON JUN 9	2.38 ON JUN 9	0 E ON AUG 26	8 110	1984
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		23 500	MEAN

KENTON CREEK AT KENTON - STATION NO. 05MG005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	0.288	0	0	0	0.010	0	0	---	---	0.034	1962
1963	---	---	0.188	0.027	0.020	0.232	0	0.008	0	0	---	---	0.057	1963
1964	---	---	0	0.249	0.011	0	0	0	0	0	---	---	0.032	1964
1965	---	---	0	0.780	0.001	0.001	0.354	0	0.005	0	---	---	0.139	1965
1966	---	---	0.133	0.098	0.037	0	0	0	0	0	---	---	0.034	1966
1967	---	---	0	0.387	0.008	0	0	0	0	0	---	---	0.048	1967
1968	---	---	0.132	0.005	0	0	0	0	0	0	---	---	0.017	1968
1969	---	---	0	1.28	0.008	0	0.003	0.001	0	0	---	---	0.155	1969
1970	---	---	0	0.581	0.023	0	0	0	0	0	---	---	0.075	1970
1971	---	---	0.008	0.061	0	0.124	0.002	0	0	0	---	---	0.024	1971
1972	---	---	0.260	0.281	0.002	0	0	0	0	0	---	---	0.056	1972
1973	---	---	0.014	0	0	0	0	0	0	0	---	---	0.002	1973
1974	---	---	0	0.862	0.049	0	0	0	0	0	---	---	0.112	1974
1975	---	---	0	0.808	0.058	0.012	0	0	0	0	---	---	0.108	1975
1976	---	---	0	1.08	0.003	0.010	0.001	0	0	0	---	---	0.134	1976
1977	---	---	0.004	0.002	0.001	0	0	0	0	0	---	---	0.001	1977
1978	---	---	0.047	0.122	0.003	0	0.001	0	0	0	---	---	0.021	1978
1979	---	---	0	0.595	0.028	0.001	0	0	0	0	---	---	0.078	1979
1980	---	---	0	0.027	0	0	0	0	0	0	---	---	0.003	1980
1981	---	---	0.008	0	0	0	0	0	0	0	---	---	0.001	1981
1982	---	---	0.008	0.155	0	0	0	0	0	0	---	---	0.020	1982
1983	---	---	0	0.437	0.002	0	0	0	0	0	---	---	0.054	1983
1984	---	---	0.003	0	0	0	0	0	0	0	---	---	0	1984
MEAN	---	---	0.034	0.350	0.011	0.017	0.018	0.001	0	0	---	---	0.053	MEAN

LOCATION - LAT 49 58 24 N DRAINAGE AREA, 45.8 km²
LONG 100 36 39 W NATURAL FLOW

KENTON CREEK AT KENTON - STATION NO. 05MG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	4.11 ON APR 15	0 ON MAR 1 *	724	1962
1963	---	4.30 ON JUN 9	0E ON MAR 1	1 200	1963
1964	---	2.67 ON APR 4	0E ON MAR 1	676	1964
1965	---	8.44 ON JUL 20	0E ON MAR 1	2 930	1965
1966	---	1.42 ON MAR 31	0E ON MAR 1	706	1966
1967	---	1.21 E ON APR 9	0E ON MAR 1	873	1967
1968	---	0.8048 ON MAR 28	0E ON MAR 1	367	1968
1969	---	8.50 E ON APR 12 *	0E ON MAR 1	3 280	1969
1970	---	1.74 ON APR 17	0E ON MAR 1	1 565	1970
1971	---	1.88 ON JUN 15	0E ON MAR 1	505	1971
1972	---	1.50 ON APR 8	0E ON MAR 1	1 400	1972
1973	---	0.084 ON MAR 13	0E ON MAR 1	38.1	1973
1974	---	5.34 E ON APR 16	0E ON MAR 1	2 380	1974
1975	---	4.62 ON APR 26	0E ON MAR 1	2 280	1975
1976	---	5.91 ON APR 8	0E ON MAR 1	2 840	1976
1977	---	0.016 ON MAR 26	0E ON MAR 1	16.8	1977
1978	---	0.891 ON MAR 31	0E ON MAR 1	451	1978
1979	---	3.87 ON APR 19	0E ON MAR 1	1 610	1979
1980	---	0.303 ON APR 5	0E ON MAR 1	70.0	1980
1981	---	0.0388 ON MAR 14	0 ON MAR 29	22.4	1981
1982	---	1.13 E ON APR 12	0E ON MAR 1	425	1982
1983	3.838 AT 19:45 CST ON APR 9 *	2.47 E ON APR 10	0E ON MAR 1	1 140	1983
1984	---	0.0368 ON MAR 28	0E ON MAR 1	9.33	1984
				1 110	MEAN

E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

KETTLE RIVER NEAR GILLAM - STATION NO. 05UF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	---	---	---	---	11.6	6.55	3.48	3.73	---	---	---	1983
1984	---	---	---	---	35.5	13.2	3.14	2.12	11.6	6.83	4.80	3.03	---	1984
1985	---	---	---	---	38.1	19.8	11.9	4.87	6.71	13.8	9.58	7.80	---	1985
1986	3.83	1.84	0.869	0.422	38.4	28.5	12.7	8.88	4.44	4.01	2.80	1.96	9.02	1986
1987	0.878	---	---	---	---	38.3	16.6	5.31	1.18	1.79	1.78	---	---	1987
1988	---	0.436	0.387	0.301	22.7	---	---	---	---	---	7.84	5.84	---	1988
1989	1.83	0.852	0.484	2.37	4.48	13.8	11.8	8.38	42.4	29.8	8.04	5.18	10.7	1989
1970	2.04	0.870	0.800	1.14	32.3	80.7	24.8	13.8	18.8	27.8	40.0	8.88	18.3	1970
1971	3.48	1.17	0.870	24.8	41.1	43.7	46.2	34.3	15.8	15.1	14.8	8.88	20.8	1971
1972	4.24	1.27	0.486	2.18	52.2	27.8	11.8	8.08	13.2	21.1	11.3	8.52	13.1	1972
1973	1.73	1.02	0.788	0.844	30.8	18.3	4.52	0.840	0.741	4.70	8.72	5.38	8.22	1973
1974	1.83	0.858	0.726	3.88	25.7	17.8	11.8	20.3	27.3	14.7	8.82	3.22	11.2	1974
1975	2.33	0.882	0.188	2.73	28.8	21.8	8.32	11.8	21.8	24.0	10.7	3.91	11.8	1975
1976	1.88	0.804	0.883	8.17	41.4	15.8	38.8	21.8	24.2	23.2	10.8	4.18	15.8	1976
1977	2.34	1.58	1.01	21.2	31.1	15.1	6.60	3.13	10.8	18.4	13.1	8.23	10.8	1977
1978	1.30	0.818	0.748	0.885	34.4	28.3	27.3	27.8	31.8	41.8	18.8	8.78	18.0	1978
1979	2.00	0.885	0.838	0.677	18.8	44.4	28.8	11.8	7.72	11.2	7.25	3.88	11.8	1979
1980	1.74	0.873	0.838	9.88	25.5	---	---	---	52.8	31.1	8.30	5.03	---	1980
1981	3.88	2.08	1.83	1.13	80.2	28.3	10.3	8.82	4.75	21.4	11.1	3.80	13.3	1981
1982	1.58	0.788	0.832	0.810	82.8	27.4	8.24	5.21	8.83	14.1	8.83	5.87	13.2	1982
1983	3.88	2.88	3.04	1.70	28.8	113	13.8	8.83	33.5	33.5	15.2	8.48	21.4	1983
1984	3.83	2.12	1.37	18.8	88.7	29.8	8.82	1.78	1.88	4.28	3.72	2.74	10.8	1984
MEAN	2.42	1.21	0.828	5.42	38.1	31.8	18.7	10.4	18.8	17.8	10.4	8.08	13.8	MEAN

LOCATION - LAT 58 20 40 N DRAINAGE AREA, 1 880 km²
LONG 94 41 00 W NATURAL FLOW

KETTLE RIVER NEAR GILLAM - STATION NO. 05UF004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1983	---	---	---	---	1983
1984	---	54.7 ON MAY 6	---	---	1984
1985	---	59.5 ON MAY 10	0 ON APR 23 *	---	1985
1986	---	52.3B ON MAY 27	0 B ON DEC 12	285 000	1986
1987	---	---	---	---	1987
1988	---	---	---	---	1988
1989	---	72.5E ON SEP 15	0.345 ON APR 2	338 000	1989
1990	---	78.8 ON MAY 31	0.510 ON APR 3	808 000	1990
1991	---	83.1E ON JUL 10	0.7258 ON APR 8	858 000	1991
1992	---	64.0 ON MAY 12	0.0858 ON APR 7	414 000	1992
1993	48.8 AT 18:00 CST ON MAY 20	46.7 ON MAY 20	0.603 ON SEP 24	188 000	1993
1994	33.7 AT 18:15 CST ON SEP 3	33.4 ON SEP 2	0.4768 ON MAR 31	352 000	1994
1995	38.1 AT 08:50 CST ON MAY 9	38.5 ON MAY 9	0.0748 ON APR 8	365 000	1995
1996	83.1 AT 17:30 CST ON JUL 10	82.0 ON JUL 10	0.8388 ON APR 10	500 000	1996
1997	80.3 AT 03:05 CST ON APR 25	56.4 ON APR 24	0.9268 ON MAR 23	340 000	1997
1998	82.4 AT 01:44 CST ON OCT 14	80.7 ON OCT 12	0.8718 ON MAR 20	567 000	1998
1999	58.9 AT 18:05 CST ON JUN 7	58.3 ON JUN 7	0.4628 ON APR 5	367 000	1999
2000	---	---	---	---	2000
2001	88.8 AT 07:30 CST ON MAY 19	87.4 ON MAY 19	0.915 ON APR 23	388 000	2001
2002	105 ON MAY 6	104 ON MAY 6	0.5738 ON APR 19	385 000	2002
2003	202 AT 12:00 CST ON JUN 3 *	202 ON JUN 3 *	1.47 B ON MAY 14	667 000	2003
2004	88.5 AT 00:01 CST ON MAY 19	87.0 ON MAY 19	1.08 ON SEP 8	344 000	2004
				425 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

KISIPACHEWUK CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	---	427	390	344	---	---	---	---	1971
1972	308	319	280	281	424	487	432	383	320	280	218	256	332	1972
1973	226	206	192	188	---	---	---	---	---	---	---	---	---	1973
MEAN	266	263	236	235	424	487	430	387	332	280	218	256	332	MEAN

LOCATION - LAT 54 16 00 N
LONG 98 17 00 W NATURAL FLOW

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	530 AT 05:13 CST ON JUN 13 *	515 ON MAY 22 *	178E ON OCT 18 *	10 500 000	1972
1973	---	---	---	---	1973
				10 500 000	MEAN

E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

KRONSGART DRAIN NEAR SEWELL - STATION NO. 05DC024

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	0.029	0.003	0	0.015	0.001	0	0.002	0.001	---	---	0.012	1973
1974	---	---	0	3.26	1.02	0.008	---	---	---	---	---	---	1.08	1974
1975	---	---	0	0.158	0.036	0.058	---	---	---	---	---	---	0.062	1975
1976	---	---	0	0.713	0	0	---	---	---	---	---	---	0.175	1976
1977	---	---	0	0.037	0.002	0.011	---	---	---	---	---	---	0.012	1977
1978	---	---	0	0.380	0.002	0	0	0	0.001	---	---	---	0.098	1978
1979	---	---	0	3.87	0.406	0.005	---	---	---	---	---	---	1.08	1979
1980	---	---	0	0.233	0.005	0.002	---	---	---	---	---	---	0.058	1980
1981	---	---	0.073	0.008	0.033	0.001	---	---	---	---	---	---	0.029	1981
1982	---	---	0.018	0.433	0	0.858	---	---	---	---	---	---	0.288	1982
1983	---	---	0.001	0.498	0	0	---	---	---	---	---	---	0.123	1983
1984	---	---	0.013	0.037	0.018	0.037	---	---	---	---	---	---	0.026	1984
MEAN	---	---	0.011	0.804	0.127	0.080	0.001	0	0.002	0.001	---	---	0.248	MEAN

LOCATION - LAT 49 15 50 N
LONG 97 30 20 W NATURAL FLOW

KRONSGART DRAIN NEAR SEWELL - STATION NO. 05OC024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	0.227 ON JUN 20	00 ON MAR 1 *	123	1973
1974	---	13.3 ON APR 19	00 ON MAR 1	11 200	1974
1975	---	1.88 ON JUN 30	00 ON MAR 1	885	1975
1976	---	8.38 B ON APR 8	00 ON MAR 1	1 850	1976
1977	---	0.3858 ON APR 9	00 ON MAR 1	129	1977
1978	---	1.98 B ON APR 11	00 ON MAR 1	1 020	1978
1979	---	14.1 B ON APR 21 *	00 ON MAR 1	11 100	1979
1980	2.59 B AT 12:51 CST ON APR 8	2.16 B ON APR 8	00 ON MAR 1	521	1980
1981	0.804 AT 10:09 CST ON MAY 25	0.406 ON MAY 25	00 ON MAR 1	311	1981
1982	8.50 AT 09:39 CST ON JUN 7 *	5.95 ON JUN 7	00 ON MAR 1	2 690	1982
1983	3.92 B AT 13:11 CST ON APR 8	3.30 B ON APR 8	00 ON MAR 1	1 280	1983
1984	0.706 AT 02:15 CST ON JUN 23	0.641 ON JUN 23	00 ON MAR 1	271	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 810	MEAN

LA SALLE RIVER AT LA SALLE - STATION NO. 05OG002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1935	---	---	---	---	0.574	0.231	1.15	0.155	0.047	0.007	---	---	---	1935
1938	---	---	---	---	2.26	0.483	0.069	0.004	---	---	---	---	---	1938
MEAN	---	---	---	---	1.42	0.347	0.610	0.080	0.047	0.007	---	---	---	MEAN

LOCATION - LAT 49 41 48 N, LONG 97 15 42 W. DRAINAGE AREA, 2 390 km^2. NATURAL FLOW

LA SALLE RIVER NEAR ELIE - STATION NO. 05OG008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	---	---	0	4.23	3.79	0.081	0.015	0	0	0	---	---	1.01	1979
1980	---	---	0	0.299	0.024	0.005	0.008	0.002	0.001	0.121	---	---	0.057	1980
1981	---	---	0.228	0.040	0.007	0.002	0.003	0.002	0.002	0.002	---	---	0.038	1981
1982	---	---	0.001	0.791	0.064	0.002	0.002	0.001	0	0	---	---	0.108	1982
1983	---	---	0.008	2.75	0.075	0.042	0.007	0.001	0.001	0	---	---	0.354	1983
1984	---	---	0.011	0.068	0.037	2.49	0.118	0.003	0.001	0.020	---	---	0.337	1984
MEAN	---	---	0.042	1.38	0.865	0.434	0.025	0.002	0.001	0.024	---	---	0.317	MEAN

LOCATION - LAT 49 53 13 N, LONG 97 45 54 W. DRAINAGE AREA, 198 km^2. NATURAL FLOW

REMARKS - PUBLISHED AS "RIVIERE SALE" PRIOR TO 1979

LA SALLE RIVER NEAR ELIE - STATION NO. 05OG008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	---	17.0 ON MAY 2 *	00 ON MAR 1 *	21 400	1979
1980	---	1.01 ON APR 17	00 ON MAR 1	1 210	1980
1981	0.439 AT 08:04 CST ON MAR 31	0.4278 ON MAR 12	0 ON MAY 28	781	1981
1982	2.80 AT 22:17 CST ON APR 14	2.67 ON APR 14	00 ON MAR 1	2 240	1982
1983	10.5 AT 04:28 CST ON APR 9	8.95 ON APR 9	0 ON SEP 19	7 480	1983
1984	11.0 AT 11:47 CST ON JUN 22 *	10.4 ON JUN 22	00 ON MAR 1	7 130	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		8 710	MEAN

LA SALLE RIVER NEAR SANFORD - STATION NO. 05OG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1922	---	---	---	2.84	1.39	0.185	0.343	0.389	0.286	---	---	---	---	1922
1923	---	---	---	---	20.4	1.35	1.26	0.261	---	---	---	---	---	1923
1924	---	---	---	---	3.22	0.088	0.047	0.017	0	---	---	---	---	1924
1925	---	---	3.75	19.7	0.578	2.55	1.19	0.118	0.070	---	---	---	---	1925
1927	---	---	---	---	18.1	3.32	1.85	0.361	0.211	---	---	---	---	1927
1928	---	---	---	3.41	0.244	2.85	3.79	0.286	0.088	---	---	---	---	1928
1929	---	---	---	---	0.089	0.179	0.283	0.222	0.260	---	---	---	---	1929
1930	---	---	---	7.93	1.39	0.070	---	---	---	---	---	---	---	1930
1934	---	---	---	13.0	0.804	---	---	---	---	---	---	---	---	1934
1956	---	---	---	25.4	24.5	0.384	0.434	0.188	1.17	0.720	0.824	0.028	---	1956
1957	0.084	0.034	2.80	8.75	0.427	0.370	0.241	0.103	0.291	0.085	0.019	0	0.903	1957
1958	0	0	0.670	0.828	0.122	0.085	1.50	0.036	0.003	---	---	---	---	1958
1986	---	---	---	---	---	---	---	---	---	0	0	0	---	1986
1987	0	0	0	38.9	3.63	0	0	0	0	0.003	0	0	3.61	1987
1988	0	0	0.884	1.74	0.180	0.056	0.768	10.5	2.81	0.178	0.055	0.001	1.45	1988
1989	0	0	0	28.4	5.65	3.30	10.7	1.87	0.157	0.186	0	0	4.18	1989
1970	0	0	0	35.5	25.9	0.473	0.033	0	0	0	0	0	5.15	1970
1971	0	0	0	17.2	0.998	0.088	0.041	0	0	0	0	0	1.51	1971
1972	0	0	0.044	20.3	0.650	0.016	0.008	0	0	0	0	0	1.72	1972
1973	0	0	3.2[illegible]	0.638	0.196	1.17	0.126	0.187	0	0	0	0	0.477	1973
1974	0	0	0	49.0	41.4	1.41	0	0	0	0	0	0	7.66	1974
1975	0	0	0	13.6	3.95	0.181	0.183	0	0	0	0	0	1.48	1975
1976	0	0	0.002	27.9	0.215	1.07	0.037	0.027	0.010	0.038	0.248	0.158	2.44	1976
1977	0.025	0.015	0.018	1.03	0.186	0.051	1.78	0.011	3.33	0.321	0.010	0.008	0.583	1977
1978	0.008	0.006	0.049	20.9	7.07	0.346	0.115	0.024	0.224	0.053	0.013	0.008	2.38	1978
1979	0.008	0.007	0.015	37.6	48.8	1.84	0.445	0.108	0.004	0	0.004	0	7.41	1979
1980	0	0	0.002	2.84	0	0	0	0	0	0	0.220	0	0.235	1980
1981	0	0.012	1.18	0.520	0.158	0.024	0.005	0	0	0	0.001	0.001	0.158	1981
1982	0	0	0.350	6.32	0.045	0.001	0.011	0.002	0.004	0.082	0	0	0.554	1982
1983	0	0	0.484	20.8	0.008	1.55	0.048	0	0	0	0	0	1.86	1983
1984	0	0	0.089	1.28	0.276	7.05	0.158	0.001	0.001	0.095	0.038	0.143	0.747	1984
MEAN	0.005	0.004	0.837	15.8	7.02	1.03	0.907	0.525	0.333	0.079	0.059	0.017	2.34	MEAN

LOCATION - LAT 49 40 45 N DRAINAGE AREA, 1 900 km²
LONG 97 25 45 W NATURAL FLOW

REMARKS - MISC. MEASUREMENTS WERE ALSO OBTAINED IN 1915, 1916, 1920, 1932, AND 1933

LA SALLE RIVER NEAR SANFORD - STATION NO. 05OG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1922	---	6.14 ON APR 10	---	---	1922
1923	---	84.4 ON APR 28	---	---	1923
1924	---	---	0 ON JUL 15 *	---	1924
1925	---	---	---	---	1925
1927	---	---	---	---	1927
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	26.9 ON APR 12	0 ON MAY 1	---	1930
1934	---	50.4 ON APR 12	0 ON MAY 27	---	1934
1956	---	113 ON MAY 2	0 ON JUN 24	---	1956
1957	---	15.6 B ON APR 1	0 B ON NOV 28	28 600	1957
1958	---	5.61 ON JUL 6	0 B ON JAN 1	---	1958
1986	---	---	0 ON OCT 1	---	1986
1987	---	90.6 ON APR 22	0 B ON JAN 1	113 000	1987
1988	---	50.9 ON AUG 27	0 B ON JAN 1	46 000	1988
1989	---	106 ON APR 13	0 B ON JAN 1	132 000	1989
1970	---	125 B ON APR 28 *	0 B ON JAN 1	183 000	1970
1971	---	56.9 B ON APR 12	0 B ON JAN 1	47 800	1971
1972	---	88.6 ON APR 18	0 B ON JAN 1	54 500	1972
1973	---	10.9 B ON MAR 24	0 B ON JAN 1	15 000	1973
1974	---	123 ON APR 24	0 B ON JAN 1	242 000	1974
1975	---	53.5 ON APR 30	0 B ON JAN 1	46 500	1975
1976	---	89.5 ON APR 10	0 B ON JAN 1	77 100	1976
1977	---	15.1 ON SEP 11	0.002 ON AUG 19	17 800	1977
1978	---	58.5 ON APR 17	0.0068 ON JAN 4	75 200	1978
1979	118 B AT 22:05 CST ON APR 28 *	118 B ON APR 28	0 ON AUG 28	233 000	1979
1980	9.83 AT 13:00 CST ON APR 19	9.21 ON APR 19	0 B ON JAN 1	7 430	1980
1981	---	4.828 ON MAR 28	0 B ON JAN 1	4 870	1981
1982	30.9 B AT 09:08 CST ON APR 18	30.2 B ON APR 18	0 B ON JAN 1	17 500	1982
1983	89.7 B AT 06:47 CST ON APR 8	89.1 B ON APR 8	0 B ON JAN 1	68 700	1983
1984	25.3 AT 17:09 CST ON JUN 18	25.0 ON JUN 18	0 B ON JAN 1	23 600	1984
				73 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LA SALLE RIVER NEAR SANFORD - STATION NO. 05OG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	---	---	---	---	---	0	0	0	---	1958
1959	0	0	0.006	14.6	2.33	0.227	0.003	0.188	0.036	12.8	3.02	0.081	2.77	1959
1960	0.028	0.037	0.048	25.7	1.90	0.332	0.114	0.021	0.017	0	0	0	2.31	1960
1961	0	0	1.14	7.98	1.14	0	0	0	0	0	0	0	0.849	1961
1962	0	0	0	13.0	4.26	4.31	0.531	17.2	2.84	0.040	0.014	0	3.51	1962
1963	0	0	2.06	7.21	1.48	9.02	0.152	0.001	0	0	0	0	1.85	1963
1964	0	0	0	3.00	0.132	0.806	0.029	0.001	0.052	0.001	0	0	0.314	1964
1965	0	0	0	35.6	2.34	0.565	0	0	0.057	0	0	0	3.17	1965
1966	0	0	0.010	30.2	9.64	0	2.80	0.290	1.87	---	---	---	---	1966
MEAN	0.004	0.005	0.408	17.2	2.89	1.88	0.454	2.71	0.584	1.81	0.378	0.008	2.08	MEAN

LOCATION - LAT 49 38 00 N DRAINAGE AREA, 2 110 km²
LONG 97 23 00 W NATURAL FLOW

REMARKS - PUBLISHED AS "RIVIERE SALE" PRIOR TO 1979

LA SALLE RIVER NEAR SANFORD - STATION NO. 05OG003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1958	---	---	0 ON OCT 1 *	---	1958
1959	---	49.69 ON APR 8	0B ON JAN 1	87 300	1959
1960	---	75.9 ON APR 13	0 ON JUL 20	73 200	1960
1961	---	23.98 ON APR 11	0B ON JAN 1	26 800	1961
1962	---	71.18 ON APR 26	0 ON JAN 1	111 000	1962
1963	---	54.7 ON JUN 5	0B ON JAN 1	52 000	1963
1964	---	15.08 ON APR 18	0 ON JAN 1	9 930	1964
1965	---	115 B ON APR 18 *	0B ON JAN 1	100 000	1965
1966	---	88.98 ON APR 14	0B ON JAN 1	---	1966
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		85 700	MEAN

LAURIE RIVER BELOW LAURIE RIVER HYDRO PLANT - STATION NO. 05EB005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	27.7	34.8	38.3	35.0	37.1	24.1	30.8	30.4	37.7	38.1	34.0	28.8	32.0	1978
1979	30.8	---	---	---	33.3	36.1	27.2	25.1	25.0	23.7	24.2	19.4	---	1979
1980	17.5	16.7	19.7	24.3	28.1	13.9	11.8	19.5	---	---	28.9	25.4	---	1980
1981	27.3	31.0	27.4	25.5	29.4	19.4	14.6	12.6	12.8	15.6	17.1	18.8	20.8	1981
1982	17.7	14.3	18.9	19.6	35.8	40.3	34.7	33.3	24.6	18.7	21.9	21.4	24.6	1982
MEAN	24.2	24.7	23.1	26.1	32.7	26.6	23.6	24.2	25.0	23.1	25.2	22.7	25.8	MEAN

LOCATION - LAT 58 13 43 N DRAINAGE AREA, 3 830 km²
LONG 101 00 12 W REGULATED SINCE 1951

LAURIE RIVER BELOW LAURIE RIVER HYDRO PLANT - STATION NO. 05EB005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1978	42.5 AT 08:10 CST ON MAY 19	41.6 ON MAY 19	1.43E ON JUN 1 *	1 010 000	1978
1979	---	---	---	---	1979
1980	---	---	11.0 ON JUN 28	---	1980
1981	37.3 AT 08:00 CST ON MAY 24	37.2 ON MAY 24	10.4 ON AUG 6	890 000	1981
1982	74.9 AT 18:40 CST ON AUG 20 *	71.1 ON AUG 21 *	10.1 ON FEB 22	783 000	1982
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		818 000	MEAN

LIMESTONE RIVER NEAR BIRD - STATION NO. 05UG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	---	---	25.9	15.7	19.2	19.3	8.79	5.63	---	1963
1964	3.66	2.56	1.89	1.04	9.08	16.2	11.9	9.24	20.4	13.8	---	---	---	1964
1965	---	---	---	---	---	---	---	---	---	---	---	---	---	1965
1966	---	---	---	---	---	39.4	23.6	14.5	22.3	23.1	---	---	---	1966
1967	---	---	---	---	---	80.0	20.2	11.1	8.69	7.09	---	---	---	1967
1968	---	---	---	---	---	66.1	31.3	13.8	9.99	8.23	---	---	---	1968
1969	---	---	---	---	---	---	---	---	---	---	---	---	---	1969
1970	---	---	---	---	---	---	---	---	---	---	---	16.7	---	1970
1971	8.76	3.77	3.49	32.0	79.9	89.2	104	89.3	26.9	21.3	16.9	12.0	39.5	1971
1972	7.60	4.74	2.83	5.03	86.7	38.2	25.9	12.2	40.8	27.0	12.0	6.29	22.8	1972
1973	5.42	3.27	5.23	1.56	62.1	18.4	8.85	1.72	2.09	10.4	5.54	3.85	11.1	1973
1974	2.26	1.34	1.39	10.1	---	27.2	10.8	25.1	30.6	16.9	11.4	6.60	---	1974
1975	---	---	---	---	---	---	---	---	---	31.7	9.54	5.86	---	1975
1976	4.41	3.52	2.72	13.4	106	34.2	30.0	19.1	18.3	40.3	13.4	6.70	24.5	1976
1977	4.98	3.89	2.56	89.8	56.7	28.5	17.8	6.01	19.3	15.0	9.17	4.85	19.7	1977
1978	2.21	1.34	0.950	0.987	78.3	28.4	48.4	61.0	63.7	49.4	15.9	6.81	29.9	1978
1979	2.90	1.44	0.814	1.07	36.0	62.1	55.4	26.2	23.4	30.8	10.0	5.55	21.5	1979
1980	3.32R	2.28R	1.83 R	33.9 R	---	---	---	---	---	---	8.28R	5.89R	---	1980
1981	3.84	3.05	2.86	2.85	83.9	37.9	24.0	22.3	10.8	29.0	8.88	3.55	19.7	1981
1982	2.52	2.09	1.74	1.88	124	87.8	24.8	10.0	15.2	19.8	7.49	5.10	23.7	1982
1983	4.04	3.36	2.83	2.47	56.7	154	23.5	38.8	89.1	33.5	19.3	9.06	34.7	1983
1984	4.75	2.12	0.595	86.6	98.6	42.6	14.3	8.85	8.47	8.82	5.22	3.23	21.8	1984
MEAN	4.34R	2.97R	2.29 R	17.3 R	73.3	50.4	28.7	21.3	23.8	22.8	10.6 R	6.88R	24.4	MEAN

R - REVISED SINCE JAN 1980

LOCATION - LAT 56 31 10 N
LONG 94 12 20 W

DRAINAGE AREA, 3 160 km²
NATURAL FLOW

LIMESTONE RIVER NEAR BIRD - STATION NO 05UG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1963	---	---	---	---	1963
1964	---	29.2 ON SEP 12	---	---	1964
1965	---	---	---	---	1965
1966	---	---	---	---	1966
1967	---	289 B ON MAY 24	---	---	1967
1968	---	---	---	---	1968
1969	---	---	---	---	1969
1970	---	---	---	---	1970
1971	185 AT 15:51 CST ON JUL 9	180 ON JUN 1	1.93 B ON APR 11	1 250 000	1971
1972	---	149 B ON MAY 11	1.82 B ON APR 24	717 000	1972
1973	---	120 B ON MAY 14	0.0988 ON APR 17 *	350 000	1973
1974	---	---	1.20 B ON FEB 24	---	1974
1975	---	---	---	---	1975
1976	---	182 ON MAY 11	2.12 B ON APR 8	774 000	1976
1977	---	163 ON APR 23	2.04 B ON MAR 31	822 000	1977
1978	---	161 E ON MAY 15	0.8788 ON MAR 21	842 000	1978
1979	124 AT 13:28 CST ON JUL 17	121 ON JUL 17	0.8518 ON MAR 29	679 000	1979
1980	---	---	---	---	1980
1981	2088 AT 08:15 CST ON MAY 21	208 B ON MAY 21	2.77 B ON DEC 31	821 000	1981
1982	---	358 B ON MAY 3	1.54 B ON APR 8	748 000	1982
1983	---	436 ON MAY 31 *	2.27 B ON MAY 17	1 090 000	1983
1984	382 AT 05:50 CST ON APR 23 *	303 ON APR 30	0.2268 ON APR 1	894 000	1984
				772 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE BEAVER RIVER NEAR THE MOUTH - STATION NO. 05PB002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	6.36	3.88	2.48	---	---	---	78.7	51.7	118	44.2	22.6	13.4	---	1972
1973	7.26	4.72	4.05	5.00	101	---	---	---	---	17.3	11.1	6.51	---	1973
1974	3.27	2.08	1.28	2.90	43.7	30.9	20.2	27.2	22.8	14.9	7.88	5.42	18.2	1974
1975	4.52	1.85	0.824	2.87	62.3	88.8	35.9	28.6	26.3	34.4	20.2	12.2	28.8	1975
1976	7.24	4.46	3.36	3.83	84.8	51.3	24.7	12.0	23.1	49.1	17.7	9.41	21.6	1976
1977	5.34	3.92	3.24	27.8	112	44.0	34.4	20.8	46.0	22.8	13.8	7.87	28.8	1977
1978	3.83	2.62	2.03	1.91	48.8	83.8	45.2	107	88.7	59.4	26.4	11.0	38.5	1978
1979	5.29	3.13	1.98	1.45	47.8	88.4	36.5	28.5	38.3	38.8	14.0	7.58	28.0	1979
1980	3.90	2.38	1.88	25.8	70.9	83.5	47.9	93.3	100	37.6	9.71	8.79	40.3	1980
1981	5.23	4.23	3.98	3.08	88.3	88.0	24.2	11.7	10.8	28.2	10.8	4.22	21.7	1981
1982	1.76	0.890	0.434	1.26	90.8	107	47.3	22.4	35.7	25.3	11.4	7.39	29.5	1982
1983	5.86	4.44	3.78	3.28	18.6	208	37.8	48.5	198	88.4	29.7	14.6	60.3	1983
1984	9.67	6.08	3.53	82.4	138	84.8	18.2	7.88	10.2	10.8	7.08	3.89	29.2	1984
MEAN	5.32	3.38	2.48	11.0	74.8	81.1	37.8	38.0	57.8	34.8	15.5	8.45	28.8	MEAN

LOCATION - LAT 57 38 10 N
LONG 95 38 50 W

DRAINAGE AREA, 4 280 km²
NATURAL FLOW

LITTLE BEAVER RIVER NEAR THE MOUTH - STATION NO. 05FB002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	203 AT 21:55 CST ON SEP 2	200 ON SEP 3	---	---	1972
1973	217 AT 01:30 CST ON MAY 15	189 ON MAY 15	3.34 B ON APR 7	---	1973
1974	88.8 AT 17:30 CST ON MAY 14	83.7 ON MAY 13	0.7858 ON APR 12	511 000	1974
1975	---	119 B ON MAY 8	0.8808 ON MAR 28	845 000	1975
1976	---	132 A ON MAY 19	3.23 B ON MAR 18	880 000	1976
1977	---	184 B ON MAY 3	3.11 B ON MAR 25	901 000	1977
1978	187 AT 18:57 CST ON AUG 15	186 ON AUG 15	1.87 B ON APR 8	1 210 000	1978
1979	---	123 B ON MAY 28	1.35 B ON APR 17	820 000	1979
1980	240 AT 21:00 CST ON AUG 24	239 ON AUG 24	1.41 B ON APR 7	1 280 000	1980
1981	248 AT 13:00 CST ON MAY 21	242 ON MAY 21	2.83 B ON APR 30	888 000	1981
1982	155 AT 15:00 CST ON JUN 1	153 ON JUN 1	0.3848 ON APR 5 *	929 000	1982
1983	405 AT 21:29 CST ON JUN 1 *	385 ON JUN 2 *	2.85 B ON MAY 20	1 580 000	1983
1984	276 AT 19:55 CST ON MAY 18	265 ON MAY 19	1.87 B ON APR 8	824 000	1984
				943 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE CHURCHILL RIVER ABOVE RECLUSE LAKE - STATION NO. 05FC001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	23.7	18.9	15.5	13.1	8.80	---	1967
1968	5.41	4.31	8.06	8.88	89.3	106	83.4	29.3	26.4	40.3	25.6	16.2	35.0	1968
1969	11.4	9.58	8.12	8.43	10.4	101	89.4	42.8	97.7	77.9	41.4	26.2	42.0	1969
1970	20.4	17.1	12.9	10.7	48.0	109	58.8	40.2	41.6	55.8	85.9	38.8	45.0	1970
1971	28.4	23.2	16.6	22.3	108	108	177	103	64.4	58.3	48.4	28.8	85.6	1971
1972	23.4	18.0	15.0	13.2	88.1	53.0	53.2	35.8	84.0	51.2	31.3	21.8	40.1	1972
1973	18.0	12.7	12.6	12.6	88.3	38.9	25.3	15.6	14.3	17.6	13.0	10.0	21.5	1973
1974	8.20	7.35	7.10	11.2	29.4	33.7	28.1	35.8	27.8	23.9	17.5	14.5	20.5	1974
1975	12.4	10.5	8.08	9.85	---	---	47.4	48.4	55.6	58.2	40.4	27.3	---	1975
1976	19.8	15.3	13.7	17.2	100	68.0	79.3	60.4	45.5	56.3	27.4	18.8	43.7	1976
1977	14.7	12.6	11.5	46.0	89.4	85.6	60.7	38.0	41.5	38.3	29.1	19.5	39.0	1977
1978	13.2	10.8	8.26	8.48	58.2	58.2	58.0	102	97.5	104	58.1	31.8	51.0	1978
1979	18.7	13.9	10.8	8.00	73.3	115	74.8	44.8	44.7	58.7	34.7	21.7	43.3	1979
1980	14.1	11.8	11.0	21.7	40.5	58.5	62.3	132	140	93.8	48.0	26.1	58.5	1980
1981	20.7	16.5	13.8	12.8	72.9	61.3	37.8	30.7	19.7	31.2	22.4	11.7	29.4	1981
1982	9.04	7.40	6.24	6.96	67.3	101	54.5	47.6	59.5	57.6	34.7	21.2	42.1	1982
1983	16.0	13.6	12.3	11.8	12.0	---	60.4	62.3	87.2	78.6	44.8	27.6	---	1983
1984	21.0	16.5	12.8	---	---	---	38.6	27.3	23.8	24.3	14.7	9.85	---	1984
MEAN	16.0	13.1	11.1	14.4	65.9	77.5	62.9	50.8	53.8	51.8	34.7	21.1	41.1	MEAN

LOCATION - LAT 58 54 00 N LONG 95 48 00 W DRAINAGE AREA, 5 800 km^2 NATURAL FLOW

LITTLE CHURCHILL RIVER ABOVE RECLUSE LAKE - STATION NO. 05FC001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	---	---	---	1967
1968	---	188 B ON MAY 18	4.058 ON FEB 14 *	1 110 000	1968
1969	---	193 ON JUN 28	7.228 ON APR 12	1 330 000	1969
1970	---	173 ON JUN 2	9.838 ON APR 19	1 420 000	1970
1971	255 AT 20:05 CST ON JUL 10 *	253 ON JUL 11 *	11.3 B ON APR 10	2 070 000	1971
1972	---	122 ON MAY 14	11.9 B ON APR 24	1 270 000	1972
1973	123 AT 12:30 CST ON MAY 14	114 ON MAY 14	6.218 ON DEC 31	878 000	1973
1974	47.6 AT 19:00 CST ON AUG 1	47.0 ON AUG 1	8.808 ON APR 17	845 000	1974
1975	---	---	---	---	1975
1976	143 B AT 21:20 CST ON APR 12	140 ON MAY 12	13.4 B ON MAR 29	1 380 000	1976
1977	---	143 B ON APR 28	11.2 B ON APR 4	1 230 000	1977
1978	157 AT 18:02 CST ON AUG 20	155 ON AUG 20	8.308 ON APR 11	1 610 000	1978
1979	---	170 B ON MAY 25	8.508 ON APR 19	1 370 000	1979
1980	---	244 ON AUG 26	10.5 B ON APR 5	1 780 000	1980
1981	---	131 B ON MAY 22	9.928 ON DEC 31	927 000	1981
1982	145 AT 18:00 CST ON JUN 8	142 ON JUN 10	5.128 ON APR 20	1 330 000	1982
1983	---	---	11.1 B ON MAY 19	---	1983
1984	---	---	9.128 ON DEC 31	---	1984
				1 300 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER AT ELPHINSTONE - STATION NO. 05MF005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	0.480	0.930	1.83	0.830	1.09	1.52	0.843	0.142	---	1915
1916	0.057	0.057	0.113	3.40	4.25	7.76	12.7	3.83	2.26	2.41	1.13	0.588	3.23	1916
1917	0.419	0.338	0.473	3.06	7.58	3.19	3.62	1.20	0.693	0.580	0.525	---	---	1917
1918	---	---	---	0.430	1.28	1.48	0.814	0.608	0.587	---	---	---	---	1918
1919	---	---	---	---	2.88	1.18	2.14	0.559	0.474	0.715	0.375	0.033	---	1919
1920	---	---	---	---	10.7	3.48	0.711	0.209	0.328	0.404	---	---	---	1920
1921	---	---	---	---	4.72	2.93	0.882	0.618	1.00	1.01	0.817	---	---	1921
1922	---	---	---	1.33	4.47	3.22	3.15	2.00	1.82	0.938	---	---	---	1922
MEAN	0.238	0.198	0.293	2.08	4.64	3.02	3.20	1.23	1.01	1.08	0.738	0.247	3.23	MEAN

LOCATION - LAT 50 31 55 N DRAINAGE AREA, 1 170 km²
LONG 100 17 40 W NATURAL FLOW

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER AT ELPHINSTONE - STATION NO. 05MF005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1915	---	---	---	---	1915
1916	---	22.8 ON JUL 3 *	0.0578 ON JAN 1 *	102 000	1916
1917	---	10.2 ON MAY 8	---	---	1917
1918	---	2.38 ON APR 26	---	---	1918
1919	---	---	---	---	1919
1920	---	15.8 ON MAY 15	---	---	1920
1921	---	---	---	---	1921
1922	---	5.86 ON MAY 27	---	---	1922
				102 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER AT MIDDLETON BRIDGE - STATION NO. 05MF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1918	---	---	---	---	---	0.391	0.742	0.631	0.440	0.482	0.248	---	---	1918
1919	---	---	---	1.98	1.18	4.08	8.91	3.83	1.03	1.10	0.700	---	---	1919
MEAN	---	---	---	1.99	1.19	2.24	4.83	2.13	0.735	0.781	0.474	---	---	MEAN

LOCATION - LAT 50 41 40 N DRAINAGE AREA, 688 km²
LONG 100 14 45 W NATURAL FLOW

LITTLE SASKATCHEWAN RIVER AT RIVERDALE - STATION NO. 05MF003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	1.42	1.70	1.70	28.3	14.8	9.21	10.5	6.43	1.54	1.83	1.42	0.566	5.70	1913
1914	0.566	0.566	0.566	26.5	---	---	---	---	---	---	---	---	---	1914
MEAN	0.993	1.13	1.13	27.9	14.8	9.21	10.5	6.43	1.54	1.83	1.42	0.566	5.70	MEAN

LOCATION - LAT 50 11 25 N DRAINAGE AREA, 3 180 km²
LONG 99 58 00 W REGULATED

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER AT RIVERDALE - STATION NO. 05MF003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1913	---	57.8 ON APR 12 *	0.283 ON SEP 12 *	211 000	1913
1914	---	---	---	---	1914
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		211 000	MEAN

LITTLE SASKATCHEWAN RIVER NEAR MINNEDOSA - STATION NO. 05MF001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	24.1	14.7	5.48	1.62	1.13	1.05	0.939	0.802	0.380	---	1914
1915	0.001	0.001	0.057	2.89	1.89	2.21	1.87	0.531	0.770	2.33	1.14	0.227	1.13	1915
1916	0.425	0.340	0.227	9.91	8.59	11.5	14.9	3.99	1.94	2.15	1.70	0.850	4.72	1916
1917	0.412	0.474	0.639	5.71	12.6	4.34	3.50	1.34	0.811	0.595	0.942	0.242	2.87	1917
1918	0.073	0.101	1.60	8.28	2.70	3.14	1.04	0.807	1.29	0.880	0.595	0.298	1.56	1918
1919	0.286	0.280	0.325	8.78	6.42	2.34	3.18	1.57	1.90	2.05	0.782	0.290	2.36	1919
1920	0.038	0.050	0.202	5.78	18.4	8.95	2.11	0.575	1.65	1.55	1.01	0.788	3.09	1920
1921	0.352	0.213	0.378	6.69	12.0	5.95	2.00	1.25	3.29	2.84	1.80	1.05	3.17	1921
1922	0.387	0.124	0.311	8.79	11.7	8.57	5.12	4.48	2.14	1.51	1.93	1.38	3.58	1922
1923	0.878	0.354	0.408	13.1	43.0	20.9	15.0	8.90	4.40	2.84	1.81	1.08	8.28	1923
1924	0.358	0.182	0.448	3.93	22.8	9.89	8.44	3.82	1.70	3.87	2.80	1.30	4.99	1924
1925	0.871	0.759	0.881	23.1	12.8	16.2	15.4	4.25	2.12	3.84	2.84	1.07	8.87	1925
1926	0.718	0.480	1.27	7.77	5.78	4.08	1.83	0.980	5.32	5.41	4.11	1.88	3.40	1926
1927	1.40	0.889	0.884	23.0	48.3	27.8	17.5	10.4	6.57	4.08	---	---	---	1927
1928	---	---	---	11.3	10.1	18.0	13.0	5.87	2.85	1.92	1.05	0.880	---	1928
1929	0.585	0.425	0.880	2.88	5.21	4.55	1.19	0.378	0.327	0.498	---	---	---	1929
1930	---	---	---	---	5.34	3.08	0.987	0.180	0.072	---	---	---	---	1930
1958	---	---	0	2.48	7.04	3.15	1.30	0.408	0.478	2.95	---	---	---	1958
1980	---	---	0.057	12.0	18.1	12.3	2.17	0.520	0.380	0.332	---	---	---	1980
1981	---	---	0.371	2.18	2.83	0.598	0.188	0.088	0.082	0.102	---	---	---	1981
1982	---	---	0	1.80	0.803	1.89	0.488	0.883	0.895	0.320	---	---	---	1982
1983	---	---	1.29	11.5	5.85	5.87	3.87	1.17	1.01	1.08	---	---	---	1983
1984	---	---	0.192	5.88	11.1	1.40	1.14	0.500	0.219	0.388	---	---	---	1984
1985	---	---	0.008	4.01	15.5	9.13	2.71	1.39	8.87	4.53	---	---	---	1985
1986	---	---	0.590	9.18	15.8	8.71	2.20	3.48	1.14	0.888	---	---	---	1986
1987	---	---	0.498	12.1	20.1	8.54	1.84	0.728	0.182	0.349	---	---	---	1987
1988	---	---	1.65	8.41	3.88	2.40	2.18	5.79	3.80	1.35	---	---	---	1988
1989	---	---	0.474	15.5	8.38	4.08	18.2	3.53	2.23	1.72	---	---	---	1989
1970	---	---	0.871	8.07	45.0	18.5	7.10	4.31	1.88	2.40	---	---	---	1970
1971	---	---	0.813	13.2	8.11	20.5	10.2	8.54	2.13	5.19	---	---	---	1971
1972	1.44	1.82	1.38	13.7	22.1	8.20	1.50	1.58	1.08	0.830	0.844	0.288	4.28	1972
1973	0.128	0.101	0.885	2.21	1.80	3.17	1.18	1.14	2.58	4.44	1.89	1.34	1.73	1973
1974	0.505	0.848	1.40	14.4	33.5	15.0	2.29	0.887	0.589	0.815	0.578	0.530	5.84	1974
1975	0.383	0.338	0.385	5.12	17.0	8.72	4.09	4.08	28.3	19.3	7.58	3.70	8.11	1975
1976	2.90	2.83	2.26	32.4	16.5	12.7	7.78	1.49	0.820	0.413	0.402	0.243	6.88	1976
1977	0.343	0.670	1.21	4.48	3.48	1.28	3.71	1.83	2.44	3.88	1.58	1.23	2.14	1977
1978	0.930	0.779	0.828	7.91	9.48	2.90	1.30	0.441	0.807	1.14	1.18	0.858	2.37	1978
1979	0.448	0.317	0.473	13.8	33.5	17.4	3.38	0.798	0.412	0.314	0.488	0.432	8.01	1979
1980	0.304	0.223	0.348	5.09	2.05	0.387	0.832	2.45	3.24	1.80	1.87	1.48	1.88	1980
1981	0.845	0.263	1.08	5.13	4.18	3.75	1.57	0.428	0.221	0.872	2.00	0.848	1.73	1981
1982	0.241	0.484	0.322	11.0	7.84	2.31	1.38	1.08	0.208	1.84	1.34	0.212	2.33	1982
1983	0.320	0.240	0.715	11.8	15.4	8.41	3.84	1.19	0.894	0.282	0.252	0.147	3.40	1983
1984	0.105	0.121	0.819	3.88	5.14	3.48	1.87	0.158	0.078	1.03	1.19	0.870	1.49	1984
MEAN	0.574	0.482	0.678	9.41	13.4	7.84	4.82	2.18	2.32	2.28	1.81	0.857	3.79	MEAN

LOCATION - LAT 50 21 28 N DRAINAGE AREA, 2 820 km²
LONG 99 54 00 W NATURAL FLOW

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1978

LITTLE SASKATCHEWAN RIVER NEAR MINNEDOSA - STATION NO. 05MF001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	7.08 ON APR 12	0 B ON JAN 1 *	35 800	1915
1916	---	25.2 ON JUL 1	0.2278 ON MAR 1	149 000	1916
1917	---	21.1 ON MAY 2	0.0858 ON DEC 28	84 100	1917
1918	---	8.47 ON APR 4	0.0878 ON JAN 6	49 300	1918
1919	---	11.8 ON APR 11	0.1138 ON DEC 31	74 300	1919
1920	---	20.4 ON MAY 18	0 B ON JAN 21	97 800	1920
1921	---	16.0 ON MAY 29	0.1708 ON JAN 24	100 000	1921
1922	---	14.0 ON MAY 20	0.0858 ON FEB 12	112 000	1922
1923	---	83.5 ON MAY 5	0.2558 ON FEB 17	282 000	1923
1924	---	36.2 ON MAY 2	0.1138 ON MAR 6	158 000	1924
1925	---	27.8 ON APR 12	0.5958 ON MAR 4	220 000	1925
1926	---	10.4 E ON APR 19	0.4508 ON FEB 10	107 000	1926
1927	---	82.4 ON MAY 8	---	---	1927
1928	---	36.2 ON JUN 24	---	---	1928
1929	---	7.56 ON APR 29	---	---	1929
1930	---	---	---	---	1930
1931	---	9.86 ON MAY 11	0 B ON MAR 1	---	1931
1932	---	26.1 ON APR 26	0.0578 ON MAR 1	---	1932
1933	---	3.86 ON APR 26	0.025 ON AUG 19	---	1933
1934	---	5.52B ON APR 21	0 B ON MAR 1	---	1934
1935	---	14.8 B ON APR 3	0 B ON MAR 1	---	1935
1936	---	17.8 ON MAY 9	0.091 ON SEP 14	---	1936
1937	---	30.0 ON MAY 8	0.0088 ON MAR 1	---	1937
1938	---	19.2 ON MAY 12	0.331 ON SEP 30	---	1938
1939	---	27.2 B ON APR 16	0.127 ON SEP 9	---	1939
1940	---	8.87 ON APR 25	0.340 ON JUN 29	---	1940
1941	---	36.0 ON APR 15	0.4508 ON APR 7	---	1941
1942	91.2 AT 02:15 CST ON MAY 12 *	80.3 ON MAY 12 *	0.371 ON SEP 11	---	1942
1943	33.4 AT 02:52 CST ON JUN 20	32.8 ON JUN 20	0.7788 ON MAR 25	---	1943
1944	33.7 AT 05:48 CST ON MAY 3	33.4 ON MAY 3	0.1768 ON DEC 31	135 000	1944
1945	---	8.60A ON JUN 28	0.048 ON JUL 23	54 400	1945
1946	43.0 AT 10:47 CST ON MAY 3	43.0 ON MAY 3	0.402 ON SEP 15	187 000	1946
1947	82.3 AT 08:40 CST ON SEP 27	58.7 ON SEP 27	0.3238 ON FEB 11	288 000	1947
1948	58.7 AT 17:58 CST ON APR 19	58.2 ON APR 19	0.1308 ON DEC 9	210 000	1948
1949	13.6 B AT 17:30 CST ON APR 16	11.6 B ON APR 16	0.2158 ON JAN 14	87 800	1949
1950	17.0 AT 08:34 CST ON MAY 4	16.9 ON MAY 3	0.176 ON AUG 31	74 800	1950
1951	80.6 AT 04:20 CST ON MAY 24	49.5 ON MAY 24	0.137 ON OCT 7	188 000	1951
1952	10.0 B AT 09:24 CST ON APR 12	7.41B ON APR 12	0.183 ON JUN 25	52 500	1952
1953	8.92 AT 19:59 CST ON APR 8	8.28 ON APR 9	0.081 ON SEP 20	54 600	1953
1954	22.6 B AT 17:19 CST ON APR 22	21.5 B ON APR 22	0.0058 ON MAR 21	73 600	1954
1955	41.1 AT 22:34 CST ON APR 25	40.4 ON APR 27	0.024 ON SEP 25	107 000	1955
1956	7.94 AT 21:51 CST ON JUN 29	7.56 ON JUN 29	0.0358 ON JAN 14	47 000	1956
				119 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER NEAR RAPID CITY - STATION NO. 05MF021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.258	2.05	3.13	0.715	0.187	0	0.017	0.048	---	---	0.797	1981
1982	---	---	0.004	5.30	1.87	2.10	0.678	0.637	0.702	0.519	---	---	1.58	1982
1983	---	---	1.30	14.5	7.11	7.62	3.64	1.20	1.44	2.02	---	---	4.82	1983
1984	---	---	0.113	5.88	11.4	1.77	1.11	0.851	0.475	0.472	---	---	2.74	1984
1985	---	---	0.227	9.75	22.6	14.8	6.84	1.92	8.49	5.26	---	---	8.88	1985
1986	---	---	2.14	13.0	17.5	7.84	2.86	3.84	1.65	0.823	---	---	8.15	1986
1987	---	---	0.283	18.4	22.1	8.24	2.52	0.981	0.218	0.387	---	---	8.73	1987
1988	---	---	3.08	7.45	5.17	3.58	2.01	7.04	5.61	1.73	---	---	4.44	1988
1989	---	---	0.404	33.8	12.3	4.65	20.8	4.80	2.38	2.48	---	---	10.0	1989
1990	---	---	0.806	17.3	58.2	19.8	8.87	4.13	1.83	3.59	---	---	13.9	1990
1991	---	---	0.783	13.2	10.5	26.8	15.0	8.71	2.47	4.81	---	---	8.98	1991
1992	---	---	1.63	21.3	28.7	5.24	1.83	0.716	0.313	1.25	---	---	7.82	1992
1993	---	---	1.27	2.27	2.04	2.57	1.55	1.13	2.21	4.28	---	---	2.15	1993
1994	---	---	0.838	23.6	38.8	20.8	2.88	0.782	0.588	0.484	---	---	11.0	1994
1995	---	---	0.334	8.88	22.4	12.0	5.44	5.38	27.5	28.3	---	---	13.5	1995
1996	---	---	2.16	43.9	21.8	13.3	8.88	1.58	0.388	0.285	---	---	11.3	1996
1997	---	---	1.61	4.30	3.80	1.88	3.84	1.81	2.18	4.53	---	---	2.98	1997
1998	---	---	1.02	10.2	9.93	2.77	1.83	0.588	0.982	1.34	---	---	3.55	1998
MEAN	---	---	1.02	14.2	15.6	8.88	4.88	2.48	3.29	3.31	---	---	8.77	MEAN

LOCATION - LAT 50 08 30 N
LONG 100 07 00 W
DRAINAGE AREA, 3 470 km^2
REGULATED SINCE 1961

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER NEAR RAPID CITY - STATION NO. 05MF021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	5.81 ON MAY 31	0 ON AUG 3 *	18 800	1981
1982	---	34.3 ON APR 21	0 B ON MAR 1	33 000	1982
1983	---	23.6 ON APR 15	0 B ON MAR 1	102 000	1983
1984	---	18.3 ON MAY 5	0.1138 ON MAR 1	58 000	1984
1985	---	46.2 ON JUL 21	0.2278 ON MAR 1	184 000	1985
1986	---	21.1 ON MAY 14	0.2838 ON MAR 1	130 000	1986
1987	---	48.7 B ON APR 16	0.078E ON OCT 4	143 000	1987
1988	---	16.4 B ON MAR 27	0.388 ON JUL 3	84 000	1988
1989	---	92.0 ON APR 15	0.3988 ON MAR 1	212 000	1989
1970	---	95.7 ON MAY 14 *	0.9088 ON MAR 1	295 000	1970
1971	---	80.3 ON JUN 14	0.8518 ON MAR 1	211 000	1971
1972	---	41.1 E ON APR 20	0.178 ON SEP 12	181 000	1972
1973	---	8.78 ON OCT 12	0.0578 ON MAR 1	48 700	1973
1974	---	85.2 ON APR 21	0.388 ON OCT 3	234 000	1974
1975	---	88.8 ON SEP 29	0.3348 ON MAR 1	288 000	1975
1976	---	72.8 ON APR 21	0.224E ON OCT 8	239 000	1976
1977	---	10.7 ON APR 18	0.215 ON JUL 7	83 200	1977
1978	---	18.2 B ON APR 18	0.374E ON AUG 27	75 100	1978
				143 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER NEAR RIVERS - STATION NO. 05MF018

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1944	---	---	---	---	---	---	---	5.73	2.32	2.66	---	---	---	1944
1945	---	---	---	12.1	12.5	7.88	5.89	2.20	1.13	1.03	---	---	---	1945
1946	---	---	---	16.6	10.2	3.30	3.71	1.24	1.02	4.71	---	---	---	1946
1947	---	---	---	14.8	28.0	18.6	35.6	8.23	2.87	2.48	3.07	---	---	1947
1948	---	---	0.788	13.2	35.3	6.18	7.88	5.80	1.73	1.11	1.03	---	---	1948
1949	---	---	---	---	5.24	7.14	4.74	5.80	1.44	0.888	1.83	---	---	1949
1950	---	---	---	10.3	30.3	23.8	20.3	12.4	4.73	4.73	---	---	---	1950
1951	---	---	0.588	14.1	17.2	8.67	2.81	0.828	1.14	2.88	---	---	---	1951
1952	---	---	0.087	8.17	3.81	2.14	1.36	0.722	8.29	2.87	---	---	---	1952
1953	---	---	0.028	12.3	19.6	28.8	17.7	8.87	4.28	3.49	---	---	---	1953
1954	---	---	---	8.18	13.3	20.3	16.8	4.34	8.38	10.8	8.81	---	---	1954
1955	---	---	---	24.3	23.2	18.8	13.0	3.94	1.88	1.88	1.38	0.847	---	1955
1956	0.388	0.280	0.818	15.4	31.8	43.7	43.2	13.4	8.88	4.08	8.10	3.13	14.0	1956
1957	2.32	1.74	7.08	18.0	31.8	11.4	7.88	2.88	1.88	1.54	2.04	1.38	7.53	1957
1958	0.481	0.147	3.48	9.80	3.28	1.41	1.80	0.228	0.017	0.278	0.718	0.172	1.78	1958
1959	0.008	0	0.887	5.34	8.40	2.88	0.788	0.408	0.340	1.40	1.83	0.888	1.78	1959
1960	1.22	0.780	0.084	11.9	19.7	18.7	8.88	0.888	0.808	0.807	0.848	0.878	5.27	1960
1961	0.887	0.883	0.844	0.284	0.139	0.888	0.812	0.880	0.378	0.083	0.032	0.324	0.388	1961
1962	0.818	0.880	1.01	0.191	0.382	1.88	1.34	0.714	0.117	0.988	0.883	0.788	0.812	1962
1963	1.33	1.43	0.887	8.87	8.23	12.0	5.18	1.58	0.884	1.32	0.787	1.73	3.61	1963
1964	1.87	1.82	1.85	2.01	10.0	2.53	1.83	0.890	0.132	0.178	0.450	1.88	2.03	1964
1965	2.01	2.02	1.98	7.13	15.9	12.3	5.93	2.78	7.88	8.87	3.28	4.35	5.87	1965
1966	4.04	3.80	2.88	3.23	17.2	8.88	2.37	3.28	1.31	0.811	0.751	0.887	4.04	1966
1967	1.80	2.22	2.05	18.1	20.3	8.88	2.48	0.782	0.288	0.118	1.07	2.18	4.87	1967
1968	2.17	2.10	1.40	4.14	4.28	3.18	2.27	8.15	5.04	1.78	2.14	2.27	3.08	1968
1969	2.41	2.04	1.53	28.8	11.4	3.63	17.4	4.44	1.70	1.85	2.10	2.83	6.48	1969
1970	2.82	2.49	2.52	8.81	51.5	19.2	8.08	3.63	1.77	2.84	4.34	2.55	9.24	1970
1971	2.55	2.37	2.18	7.67	11.8	20.4	13.3	8.18	2.80	8.44	5.37	4.22	7.00	1971
1972	2.18	1.72	1.63	18.1	25.9	8.45	1.78	0.848	0.858	0.880	0.880	0.858	5.20	1972
1973	0.807	0.713	0.884	0.788	1.83	2.48	1.48	0.953	2.38	8.52	2.51	1.82	1.82	1973
1974	1.10	1.08	1.01	21.8	36.8	18.4	2.77	1.18	1.08	1.07	0.883	0.822	7.38	1974
1975	0.817	0.775	0.751	8.47	21.9	10.5	5.48	4.78	23.8	23.2	8.80	4.01	8.31	1975
1976	3.41	2.81	2.38	47.8	22.1	12.0	10.2	1.93	0.879	0.832	0.722	0.748	8.78	1976
1977	0.725	0.882	0.433	1.42	3.81	1.81	3.46	2.17	2.01	4.88	1.58	1.84	2.08	1977
1978	1.47	1.48	1.48	7.18	11.1	3.48	1.72	1.02	0.838	0.788	0.827	0.842	2.88	1978
1979	0.783	0.778	0.781	21.4	38.4	21.2	4.13	1.04	0.825	0.828	0.818	0.820	7.78	1979
1980	0.808	0.788	0.801	1.48	3.07	0.873	1.12	1.48	4.72	2.48	1.24	1.83	1.71	1980
1981	1.87	1.81	1.23	3.71	3.77	3.80	2.28	1.11	1.08	1.04	1.24	1.78	2.01	1981
1982	1.48	1.52	1.40	8.82	9.71	3.34	1.88	1.48	1.31	0.841	1.88	1.13	2.88	1982
1983	1.08	1.08	1.04	18.1	18.0	8.38	4.42	1.88	1.18	1.08	0.830	0.887	4.58	1983
1984	0.877	0.303	0.088	0.248	4.18	3.58	2.38	1.18	0.883	0.838	0.748	0.780	1.30	1984
MEAN	1.48	1.38	1.38	11.2	18.1	10.3	7.30	3.08	2.88	2.73	1.88	1.88	4.87	MEAN

LOCATION - LAT 50 01 28 N DRAINAGE AREA, 3 810 km^2
LONG 100 12 58 W REGULATED SINCE 1980

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER NEAR RIVERS - STATION NO. 05MF018

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1944	---	---	---	---	1944
1945	---	---	---	---	1945
1946	---	---	---	---	1946
1947	---	---	---	---	1947
1948	---	84.8 ON MAY 5	---	---	1948
1949	---	---	---	---	1949
1950	---	57.8 ON MAY 24	---	---	1950
1951	---	32.0 B ON APR 4	---	---	1951
1952	---	32.3 ON SEP 12	0 B ON MAR 1 *	---	1952
1953	---	36.4 ON JUN 11	---	---	1953
1954	---	26.2 ON JUN 16	---	---	1954
1955	---	32.0 ON APR 12	---	---	1955
1956	---	85.1 ON JUN 26	0.2278 ON FEB 12	444 000	1956
1957	---	59.5 ON MAY 3	0.5388 ON DEC 25	237 000	1957
1958	---	17.9 B ON APR 1	0 ON SEP 10	58 500	1958
1959	---	9.06 ON MAY 21	0 B ON JAN 13	55 500	1959
1960	---	29.4 ON APR 26	0.0858 ON MAR 5	187 000	1960
1961	---	0.725E ON JUN 30	0 E ON NOV 13	12 200	1961
1962	---	1.86 E ON JUN 6	0.008E ON OCT 4	25 800	1962
1963	---	35.7 ON JUN 11	0.020E ON MAR 30	114 000	1963
1964	---	14.6 ON MAY 11	0.045 ON SEP 18	64 300	1964
1965	---	28.7 ON JUL 21	1.84 ON APR 8	188 000	1965
1966	---	19.5 ON MAY 14	0.048 ON APR 19	127 000	1966
1967	---	41.1 ON APR 18	0.031 ON SEP 8	154 000	1967
1968	---	8.35 ON AUG 18	0 ON APR 6	97 400	1968
1969	---	103 A ON APR 15 *	0.093A ON APR 9	205 000	1969
1970	82.0 AT 02:06 CST ON MAY 16 *	87.2 ON MAY 15	0.054 ON APR 21	291 000	1970
1971	37.4 AT 18:00 CST ON JUN 16	38.8 ON JUN 16	0.818 ON APR 14	221 000	1971
1972	47.3 AT 01:21 CST ON APR 18	45.9 ON APR 18	0.482 ON SEP 5	184 000	1972
1973	---	7.18 ON OCT 24	0.314 ON SEP 1	57 300	1973
1974	70.2 AT 17:53 CST ON APR 21	68.2 ON APR 21	0.810 ON DEC 25	233 000	1974
1975	52.1 AT 06:00 CST ON SEP 30	51.5 ON SEP 30	0.742B ON MAR 13	293 000	1975
1976	73.9 AT 11:35 CST ON APR 21	72.8 ON APR 21	0.885 ON OCT 31	278 000	1976
1977	8.13 AT 12:00 CST ON OCT 24	7.82 ON JUL 23	0.258 ON JUL 10	84 800	1977
1978	17.8 AT 13:20 CST ON MAY 8	17.0 ON MAY 8	0.785 ON NOV 2	84 800	1978
1979	89.8 AT 08:07 CST ON APR 24	86.9 ON APR 24	0.782B ON FEB 2	245 000	1979
1980	10.4 AT 12:44 CST ON SEP 23	8.20 ON SEP 24	0.034 ON JUL 27	54 100	1980
1981	8.23 AT 07:55 CST ON APR 13	8.00 ON APR 13	1.01 ON OCT 8	83 400	1981
1982	24.2 AT 14:13 CST ON APR 24	23.9 ON APR 24	0.822 ON OCT 7	89 800	1982
1983	48.6 AT 04:25 CST ON APR 24	47.8 ON APR 24	0.861B ON DEC 17	145 000	1983
1984	7.42 AT 21:14 CST ON MAY 23	6.85 ON MAY 23	0.035 ON MAR 29	41 200	1984
				147 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SOURIS RIVER NEAR BRANDON - STATION NO. 05MH006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0	1.04	0.275	0	0	0	0	0	---	---	0.182	1961
1962	---	---	0	3.87	0.144	0.184	0.006	0.003	0	0	---	---	0.516	1962
1963	---	---	0.100	0.009	0.011	0.138	0.005	0	0	0	---	---	0.033	1963
1964	---	---	0	2.74	0.182	0.025	0.026	0	0.158	0.015	---	---	0.368	1964
1965	---	---	0	5.92	0.214	0.118	0.015	0	0.013	0.004	---	---	0.770	1965
1966	---	---	1.25	0.438	0.219	0.130	0.091	0.004	0	0	---	---	0.287	1966
1967	---	---	0	1.14	0.187	0.011	0	0	0	0	---	---	0.183	1967
1968	---	---	0.484	0.048	0.008	0.001	0	0	0.003	0	---	---	0.066	1968
1969	---	---	0	8.19	0.299	0.245	0.808	0.018	0.002	0	---	---	0.805	1969
1970	---	---	0	4.14	1.17	0.084	0.218	0.002	0	0	---	---	0.693	1970
1971	---	---	0.015	0.741	0.022	0.342	0.207	0.018	0	0	---	---	0.185	1971
1972	---	---	1.80	0.528	0.110	0.118	0.004	0	0	0	---	---	0.287	1972
1973	---	---	0	0	0.002	0.001	0	0	0	0	---	---	0	1973
1974	---	---	0	8.80	2.02	0.140	0.001	0	0	0	---	---	1.47	1974
1975	---	---	0	2.78	0.401	0.427	0.012	0.180	0.179	0.251	---	---	0.521	1975
1976	---	---	0.032	12.2	0.337	0.089	0.006	0	0	0	---	---	1.56	1976
1977	---	---	0.001	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0.158	1.41	0.088	0.003	0.001	0	0	0	---	---	0.204	1978
1979	---	---	0	4.58	0.869	0.018	0.008	0.001	0	0	---	---	0.838	1979
1980	---	---	0	0.252	0	0	0	0	0	0	---	---	0.031	1980
1981	---	---	0.167	0.038	0.017	0	0	0.170	0.021	0.020	---	---	0.082	1981
1982	---	---	0.525	3.33	0.187	0.060	0.004	0.002	0	0	---	---	0.805	1982
1983	---	---	0.048	3.81	0.050	0.022	0	0	0	0	---	---	0.487	1983
1984	---	---	0.140	0.027	0.289	0	0	0	0	0	---	---	0.089	1984
MEAN	---	---	0.187	2.70	0.283	0.088	0.050	0.018	0.018	0.012	---	---	0.413	MEAN

LOCATION - LAT 49 43 56 N, LONG 99 50 52 W
DRAINAGE AREA, 453 km^2
NATURAL FLOW

LITTLE SOURIS RIVER NEAR BRANDON - STATION NO. 05MH005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	4.28 ON APR 9	0B ON MAR 1 *	3 430	1981
1982	---	38.2 ON APR 18	0E ON MAR 1	10 800	1982
1983	---	1.28 ON JUN 4	0B ON MAR 1	895	1983
1984	---	37.1 ON APR 12	0B ON MAR 1	8 180	1984
1985	---	38.2 B ON APR 13	0B ON MAR 1	16 300	1985
1986	---	10.7 B ON MAR 22	0B ON MAR 1	5 850	1986
1987	---	2.81 ON APR 27	0B ON MAR 1	3 450	1987
1988	---	2.86 B ON MAR 26	0B ON MAR 1	1 400	1988
1989	---	40.2 B ON APR 12	0B ON MAR 1	19 100	1989
1970	---	22.1 ON APR 28	0B ON MAR 1	14 800	1970
1971	---	3.00 B ON APR 7	0B ON MAR 1	3 500	1971
1972	---	8.50 B ON MAR 18	0B ON MAR 1	8 270	1972
1973	---	0.008 ON MAY 23	0B ON MAR 1	9.41	1973
1974	---	80.0 ON APR 20 *	0B ON MAR 1	31 200	1974
1975	---	17.6 ON APR 28	0B ON MAR 1	11 000	1975
1976	---	54.4 B ON APR 9	0 ON AUG 7	32 900	1976
1977	---	0.0078 ON MAR 18	0B ON MAR 1	2.81	1977
1978	---	9.80 B ON APR 1	0B ON MAR 1	4 320	1978
1979	58.4 B AT 07:24 CST ON APR 22 *	48.3 B ON APR 22	0B ON MAR 1	13 500	1979
1980	5.008 AT 17:40 CST ON APR 8	2.75 B ON APR 7	0B ON MAR 1	855	1980
1981	4.43 AT 18:44 CST ON AUG 25	2.11 ON AUG 26	0 ON MAY 28	1 110	1981
1982	22.8 B AT 15:08 CST ON APR 13	22.1 B ON APR 13	0B ON MAR 1	10 700	1982
1983	16.5 AT 18:21 CST ON APR 8	14.2 ON APR 8	0B ON MAR 1	8 870	1983
1984	---	2.21 E ON MAY 8	0B ON MAR 1	1 240	1984
				8 740	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE WOODY RIVER NEAR BARROWS - STATION NO. 05LC005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1976	---	---	---	---	---	---	0.521	0.075	0.053	0.154	---	---	---	1976
1977	---	---	0.076	1.14	0.508	0.180	0.915	1.61	1.15	0.782	---	---	0.782	1977
1978	---	---	0.088	0.764	1.44	0.552	0.391	0.202	0.334	0.726	---	---	0.559	1978
1979	---	---	0.067	0.432	3.20	1.25	0.188	0.048	0.177	0.213	---	---	0.885	1979
1980	---	---	0.085	1.18	0.245	0.207	0.145	0.585	0.619	---	---	---	---	1980
1981	---	---	0.058	1.33	0.714	0.585	0.534	0.180	0.298	1.07	---	---	0.591	1981
1982	---	---	0	0.330	1.07	0.598	2.08	0.270	0.152	0.381	---	---	0.606	1982
1983	---	---	0.084	0.587	2.78	1.83	0.892	0.158	0.357	0.183	---	---	0.672	1983
1984	---	---	0.083	2.45	2.77	2.08	0.252	0.059	0.270	1.02	---	---	1.11	1984
MEAN	---	---	0.084	1.03	1.59	0.822	0.653	0.341	0.378	0.580	---	---	0.745	MEAN

LOCATION - LAT 52 50 00 N, LONG 101 34 00 W
DRAINAGE AREA, 88.7 km^2
NATURAL FLOW

LITTLE WOODY RIVER NEAR BARROWS - STATION NO. 05LC005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1976	---	---	---	---	1976
1977	10.8 AT 17:48 CST ON AUG 10	7.87 ON AUG 10	0.040 ON JUN 29	18 800	1977
1978	4.73 AT 00:00 CST ON APR 28	4.28 ON APR 28	0.0878 ON MAR 1	11 800	1978
1979	11.9 AT 20:43 CST ON MAY 25	10.4 ON MAY 25	0.030 ON AUG 22	14 700	1979
1980	4.80 AT 17:58 CST ON SEP 4	4.05 ON APR 22	0.018 ON AUG 2	---	1980
1981	8.03 AT 12:55 CST ON OCT 13	4.84 ON OCT 13	0.032 ON SEP 2	12 800	1981
1982	---	22.7 ON JUL 17 *	0 B ON MAR 1 *	12 800	1982
1983	13.3 AT 11:04 CST ON JUN 3 *	10.3 ON JUN 3	0.088 ON SEP 3	18 500	1983
1984	9.40 AT 22:18 CST ON JUN 21	7.12 ON JUN 22	0.028 ON AUG 28	23 800	1984
				15 800	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LONG RIVER ABOVE BADGER CREEK - STATION NO. 05DA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1921	---	---	---	0.885	0.089	0.056	0.015	0.012	0.022	0.021	---	---	---	1921
1922	---	---	---	0.886	0.118	0.028	0.089	0.008	0.009	0.011	---	---	---	1922
1923	---	---	---	---	0.458	0.484	0.318	0.074	---	---	---	---	---	1923
1924	---	---	---	---	1.20	0.488	0.144	0.050	0.012	0.174	---	---	---	1924
1925	---	---	---	1.15	0.393	1.48	0.288	0.043	0.034	0.052	---	---	---	1925
1926	---	---	---	0.184	0.088	0.241	0.185	0.032	0.030	---	---	---	---	1926
1927	---	---	---	1.03	5.80	2.80	1.37	0.337	0.228	0.258	---	---	---	1927
1928	---	---	2.13	0.886	0.233	1.88	2.14	0.418	0.105	0.084	0.048	---	---	1928
1929	---	---	---	---	0.203	0.148	0.023	0.018	0.027	0.038	---	---	---	1929
1930	---	---	---	---	0.834	---	---	---	---	---	---	---	---	1930
1938	---	---	---	---	0.137	0.038	---	---	---	---	---	---	---	1938
MEAN	---	---	2.13	0.782	0.878	0.751	0.807	0.114	0.058	0.088	0.048	---	---	MEAN

LOCATION - LAT 49 08 25 N, LONG 99 32 40 W
DRAINAGE AREA, 482 km^2
NATURAL FLOW

REMARKS - PUBLISHED AS "WHITEMUD CREEK" PRIOR TO 1978

LONG RIVER ABOVE BADGER CREEK - STATION NO. 05QA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1921	---	---	---	---	1921
1922	---	---	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1927	---	10.4 ON MAY 24 *	---	---	1927
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	---	---	---	1930
1936	---	---	---	---	1936
MEAN				---	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LONG RIVER NEAR HOLMFIELD - STATION NO. 05QA005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.388	0.108	0.078	0.022	0.008	0.333	0 023	1.34	---	---	0.286	1959
1960	---	---	0	8.02	1.94	1.21	0.081	0.004	0	0.002	---	---	1.14	1960
1961	---	---	0.083	0.518	0.282	0.039	0	0	0	0	---	---	0.108	1961
1962	---	---	0	1.27	0.243	1.88	0.181	0.380	0.082	0.048	---	---	0.478	1962
1963	---	---	0.408	1.28	0.838	1.45	0.230	0.088	0 021	0.005	---	---	0.488	1963
1964	---	---	0	2.27	0.897	0.345	0.085	0.018	0.030	0.019	---	---	0.482	1964
1965	---	---	0	3.20	1.48	1.07	0.704	0.813	0.380	0.232	---	---	0.850	1965
1966	---	---	1.82	2.07	1.83	0.880	0.709	0.187	0.014	0.028	---	---	0.813	1966
1967	---	---	0.054	1.34	0.887	0.219	0.048	0	0	0.017	---	---	0.318	1967
1968	---	---	0.140	0.288	0.190	0.040	0.047	0.882	1.28	0.272	---	---	0.368	1968
1969	---	---	0	8.88	2.28	0.822	1.48	0.128	0.020	0.072	---	---	1.87	1969
1970	---	---	0	2.83	3.83	1.12	0.418	0.044	0.088	0.081	---	---	1.08	1970
1971	---	---	0	2.89	1.12	2.82	2.18	0.128	0.074	0.488	---	---	1.17	1971
1972	---	---	3.03	5.84	1.83	2.84	0.383	0.888	0.104	0.140	---	---	1.78	1972
1973	---	---	0.438	0.247	0.388	0.711	0.848	0.187	0.280	0.188	---	---	0.388	1973
1974	---	---	0	11.2	8.87	1.88	0.232	0.087	0.048	0.108	---	---	2.80	1974
1975	---	---	0	4.88	3.88	1.44	0.288	0.088	0.188	0.288	---	---	1.38	1975
1976	---	---	0.287	11.2	1.30	0.272	0.027	0.003	0.003	0.083	---	---	1.82	1976
1977	---	---	0.131	0.134	0.238	0.018	0.080	0	0.004	0.014	---	---	0.077	1977
1978	---	---	0.015	2.80	1.08	0.448	0.038	0	0.004	0.008	---	---	0.804	1978
1979	---	---	0	8.28	3.12	0.421	0.033	0.003	0.002	0.010	---	---	1.10	1979
1980	---	---	0.002	0.704	0.008	0.008	0	0.083	0.048	0.113	---	---	0.118	1980
1981	---	0.238	0.218	0.101	0.183	0.148	0.042	0.124	0.038	0.083	---	---	0.118	1981
1982	---	---	0.488	8.42	0.820	0.817	0.113	0.008	0.008	0.135	---	---	0.840	1982
1983	---	---	0.882	3.21	0.871	0.114	0.014	0	0.002	0.018	---	---	0.878	1983
1984	---	---	1.08	0.441	0.848	0.018	0	0	0	0.011	---	---	0.281	1984
MEAN	---	0.238	0.383	3.23	1.41	0.751	0.303	0.140	0.101	0.142	---	---	0.787	MEAN

LOCATION - LAT 49 08 51 N DRAINAGE AREA, 878 km^2
LONG 98 24 51 W REGULATED SINCE 1958

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.08 AND 0 m^3/s OCCURRED IN FEB

LONG RIVER NEAR HOLMFIELD - STATION NO. 05QA005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	4.88 ON OCT 28	0 B ON MAR 1 *	8 080	1959
1960	---	15.8 B ON APR 7	0 B ON MAR 1	24 100	1960
1961	---	0.8778 ON APR 18	0 B ON MAR 1	2 280	1961
1962	---	10.3 ON JUN 15	0 B ON MAR 1	10 100	1962
1963	---	4.81 ON JUN 5	0 B ON MAR 1	10 800	1963
1964	---	5.52 B ON APR 7	0 B ON MAR 1	8 880	1964
1965	---	8.88 B ON APR 13	0 B ON MAR 1	20 100	1965
1966	---	5.32 B ON MAR 31	0 B ON MAR 1	18 300	1966
1967	---	2.07 ON APR 28	0 B ON MAR 1	8 730	1967
1968	---	3.11 ON SEP 8	0 B ON MAR 1	7 890	1968
1969	---	33.1 B ON APR 13	0 B ON MAR 1	35 300	1969
1970	---	11.4 ON MAY 1	0 B ON MAR 1	22 300	1970
1971	---	7.78 ON APR 11	0 B ON MAR 1	24 700	1971
1972	---	13.8 B ON MAR 17	0 B ON MAR 1	37 800	1972
1973	---	2.70 ON JUN 22	0 B ON MAR 1	7 740	1973
1974	---	40.8 B ON APR 17 *	0 B ON MAR 1	63 000	1974
1975	---	17.8 ON APR 28	0 B ON MAR 1	28 200	1975
1976	---	24.1 B ON APR 2	0 ON JUL 28	34 300	1976
1977	---	2.41 ON MAY 31	0 ON JUL 8	1 830	1977
1978	---	8.88 ON MAY 28	0 B ON MAR 1	10 700	1978
1979	---	23.8 B ON APR 22	0 B ON MAR 1	23 300	1979
1980	---	3.02 B ON APR 5	0 B ON MAR 1	2 440	1980
1981	---	0.881 ON AUG 8	0.001 ON JUL 28	2 430	1981
1982	18.7 B AT 11:08 CST ON APR 3 *	11.4 B ON APR 3	0 B ON MAR 1	18 800	1982
1983	5.888 AT 11:48 CST ON APR 1	5.28 B ON APR 2	0 B ON MAR 1	12 300	1983
1984	4.588 AT 07:45 CST ON MAR 24	3.91 B ON MAR 23	0 ON JUN 28	8 820	1984
MEAN				18 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LONG RIVER NEAR KILLARNEY - STATION NO. 05DA013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.051	0.985	0.448	0.075	0.003	0	0	0	---	---	0.193	1967
1968	---	---	0.085	0.153	0.155	0.010	0.001	0.342	0.563	0.138	---	---	0.178	1968
1969	---	---	0	5.36	1.55	0.453	0.906	0.110	0.017	0.050	---	---	1.05	1969
1970	---	---	0.003	1.62	2.40	0.718	0.145	0.018	0	0	---	---	0.810	1970
1971	---	---	0	2.02	0.520	0.882	1.03	0.015	0	0.244	---	---	0.584	1971
1972	---	---	1.18	2.87	1.51	1.18	0.180	0.274	0.044	0.064	---	---	0.908	1972
1973	---	---	0.298	0.208	0.380	0.543	0.251	0.041	0.120	0.148	---	---	0.248	1973
1974	---	---	0	4.65	4.28	1.46	0.158	0.017	0.012	0.018	---	---	1.34	1974
1975	---	---	0	2.43	2.08	1.15	0.205	0.003	0.036	0.185	---	---	0.783	1975
1976	---	---	0.349	7.32	1.07	0.292	0.002	0	0	0	---	---	1.11	1976
MEAN	---	---	0.195	2.78	1.44	0.886	0.288	0.082	0.079	0.081	---	---	0.898	MEAN

LOCATION - LAT 48 10 20 N DRAINAGE AREA, 209 km²
LONG 99 40 40 W NATURAL FLOW

REMARKS - PUBLISHED AS "WHITEMUD CREEK" PRIOR TO 1979

LONG RIVER NEAR KILLARNEY - STATION NO. 05DA013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1967	---	2.06 ON APR 30	0B ON MAR 1 *	4 050	1967
1968	---	2.01 ON AUG 26	0B ON MAR 1	3 780	1968
1969	---	15.9 ON APR 12	0B ON MAR 1	22 100	1969
1970	---	5.40 ON APR 30	0B ON MAR 1	12 800	1970
1971	---	5.01B ON APR 7	0B ON MAR 1	12 500	1971
1972	---	4.87 ON JUN 14	0B ON MAR 1	19 200	1972
1973	---	3.03 ON JUN 21	0B ON MAR 1	5 250	1973
1974	---	20.2 ON APR 21	0B ON MAR 1	28 300	1974
1975	---	8.98E ON APR 29	0B ON MAR 1	15 800	1975
1976	---	20.5 ON APR 7 *	0 ON JUL 5	23 500	1976
				14 800	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LONG RIVER NEAR LYONSHALL - STATION NO. 05DA014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	---	---	---	0.299	0.265	0.087	0.184	0.110	---	---	---	1973
1974	---	---	0	4.85	4.18	1.31	0.100	0.038	0.018	0.014	---	---	1.30	1974
1975	---	---	0	2.47	1.82	0.824	0.057	0.025	0.050	0.090	---	---	0.637	1975
1976	---	---	0.188	3.76	0.882	0.198	0.024	0.003	0.001	0.004	---	---	0.622	1976
1977	---	---	0.008	0.028	0.088	0.002	0.042	0.002	0.008	0.003	---	---	0.025	1977
1978	---	---	0.023	0.500	0.414	0.180	0.041	0	0	0.004	---	---	0.142	1978
1979	---	---	0.008	1.89	0.883	0.189	0.050	0.003	0.052	0.011	---	---	0.380	1979
1980	---	---	0.005	0.131	0.003	0.004	0	0.008	0.070	0.121	---	---	0.042	1980
1981	---	0.217	0.151	0.115	0.137	0.242	0.062	0.011	0.002	0.024	---	---	0.093	1981
1982	---	---	0.028	1.13	0.482	0.232	0.036	0.020	0.002	0.052	---	---	0.248	1982
MEAN	---	0.217	0.048	1.85	0.961	0.328	0.072	0.021	0.040	0.043	---	---	0.387	MEAN

LOCATION - LAT 49 07 55 N DRAINAGE AREA, 158 km²
LONG 99 48 04 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.09 AND 0 m³/s OCCURRED IN FEB

LONG RIVER NEAR LYONSHALL - STATION NO. 05DA014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1973	---	---	---	---	1973
1974	25.4 AT 19:12 CST ON APR 21 *	21.3 ON APR 21 *	0B ON MAR 1 *	27 700	1974
1975	15.6 AT 08:11 CST ON APR 29	13.4 ON APR 29	0B ON MAR 1	13 800	1975
1976	8.86 AT 20:54 CST ON APR 7	7.42 ON APR 18	0 ON AUG 7	13 200	1976
1977	1.86 AT 14:18 CST ON JUL 11	1.26 ON JUL 11	0B ON MAR 1	533	1977
1978	5.35 AT 10:11 CST ON MAY 26	3.85 ON MAY 26	0 ON AUG 7	3 010	1978
1979	10.8 AT 00:00 CST ON APR 22	8.00 ON APR 22	0 ON JUL 20	8 030	1979
1980	---	0.2438 ON APR 1	0B ON MAR 1	894	1980
1981	---	0.388 ON JUN 24	0 ON JUL 21	1 980	1981
1982	8.40 AT 00:00 CST ON APR 18	5.35 ON APR 18	0B ON MAR 1	5 200	1982
				8 230	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LONG RIVER NEAR WAKOPA - STATION NO. 05DA009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	0	0.048	0.045	0.121	0.034	0	0	0	---	---	0.030	1982
1983	---	---	0.245	0.503	0.154	0.431	0.020	0	0	0	---	---	0.187	1983
1984	---	---	0	0.706	0.454	0.219	0.088	0	0.038	0.025	---	---	0.187	1984
1985	---	---	0	1.82	0.989	0.648	0.845	0.428	0.241	0.097	---	---	0.578	1985
1986	---	---	0.881	1.42	1.48	0.258	0.410	0.054	0.001	0	---	---	0.581	1986
1987	---	---	0.003	0.737	0.350	0.047	0	0	0	0	---	---	0.141	1987
1988	---	---	0.056	0.191	0.118	0.009	0	0.329	0.313	0.182	---	---	0.149	1988
1989	---	---	0	5.82	1.82	0.812	0.782	0.099	0.012	0.032	---	---	1.08	1989
1970	---	---	0.045	2.14	2.40	0.575	0.219	0.058	0	0	---	---	0.877	1970
1971	---	---	0	1.28	0.441	1.07	1.00	0.057	0	0.329	---	---	0.519	1971
1972	---	---	0.883	2.84	1.82	0.872	0.111	0.174	0.059	0.051	---	---	0.848	1972
1973	---	---	0.182	0.124	0.242	---	---	---	---	---	---	---	---	1973
MEAN	---	---	0.175	1.46	0.842	0.442	0.296	0.108	0.080	0.088	---	---	0.450	MEAN

LOCATION - LAT 48 08 10 N DRAINAGE AREA, 142 km²
LONG 98 50 10 W NATURAL FLOW

REMARKS - PUBLISHED AS "WAKOPA CREEK" PRIOR TO 1979

LONG RIVER NEAR WAKOPA - STATION NO. 05DA009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1982	---	0.871 ON JUN 17	08 ON MAR 1 *	844	1982
1983	---	1.51 ON JUN 4	08 ON MAR 1	3 540	1983
1984	---	1.81 ON APR 17	08 ON MAR 1	3 950	1984
1985	---	3.08 B ON APR 17	08 ON MAR 1	12 300	1985
1986	---	3.00 B ON APR 1	08 ON MAR 1	11 900	1986
1987	---	0.986 ON APR 24	08 ON MAR 1	2 930	1987
1988	---	2.19 ON AUG 28	08 ON MAR 1	3 180	1988
1989	---	18.3 B ON APR 12 *	08 ON MAR 1	23 100	1989
1970	---	8.38 ON APR 25	08 ON MAR 1	14 300	1970
1971	---	5.82 ON JUN 16	08 ON MAR 1	11 000	1971
1972	---	4.30 B ON APR 16	08 ON MAR 1	13 000	1972
1973	---	---	---	---	1973
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		9 530	MEAN

LOON RIVER ABOVE BRITTON LAKE - STATION NO. 05EA005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	0.640	0.581	0.486	4.23	8.19	8.12	---	---	1.74	1.88	1.27	0.773	---	1977
1978	0.575	0.440	0.386	0.488	4.26	2.84	1.42	1.78	2.24	3.42	1.73	0.898	1.71	1978
1979	0.674	0.637	0.816	0.661	2.77	2.87	0.950	0.788	1.47	2.08	1.57	0.889	1.33	1979
1980	0.687	0.582	0.441	2.44	2.02	0.398	0.805	1.82	3.73	4.24	1.44	0.834	1.80	1980
1981	0.647	0.528	0.508	0.529	3.71	1.23	0.850	0.444	0.282	0.218	0.186	0.188	0.780	1981
1982	0.171	0.227	0.284	0.404	8.87	8.21	2.20	7.31	3.30	0.986	0.583	0.488	2.43	1982
1983	0.484	0.470	0.423	0.813	3.94	8.88	2.15	1.48	7.11	4.87	1.46	0.770	2.48	1983
1984	0.510	0.471	0.580	3.83	2.48	1.85	0.947	2.71	4.83	3.08	1.72	1.13	1.89	1984
MEAN	0.568	0.492	0.483	1.87	4.03	3.32	1.27	2.33	3.08	2.44	1.35	0.788	1.74	MEAN

LOCATION - LAT 58 03 18 N DRAINAGE AREA, 1 420 km²
LONG 101 51 30 W NATURAL FLOW

LOON RIVER ABOVE BRITTON LAKE - STATION NO. 05EA005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1977	11.7 AT 18:30 CST ON MAY 30	11.5 ON MAY 30	0.357 ON APR 3	---	1977
1978	8.15 AT 22:04 CST ON MAY 10	8.10 ON MAY 7	0.3778 ON MAR 17	53 800	1978
1979	8.21 AT 01:50 CST ON MAY 27	8.07 ON MAY 28	0.478 ON APR 8	42 100	1979
1980	8.77 AT 22:04 CST ON APR 24	8.88 ON APR 24	0.312 ON JUN 24	50 700	1980
1981	8.68 AT 11:53 CST ON MAY 9	8.48 ON MAY 10	0.1858 ON DEC 25	24 000	1981
1982	13.1 AT 12:00 CST ON AUG 30	13.1 ON AUG 30	0.1808 ON JAN 7 *	78 800	1982
1983	12.6 AT 23:59 CST ON SEP 30 *	12.5 ON SEP 21 *	0.3958 ON MAR 25	77 400	1983
1984	8.37 ON AUG 24	8.10 ON AUG 24	0.293 ON AUG 8	59 700	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		54 900	MEAN

MAIN DRAIN NEAR DOMINION CITY - STATION NO. 05DD028

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	4.24	0.037	0	0	0	0	0	---	---	0.524	1981
1981	---	---	0.142	0.441	0	0	0	0	0	0.001	---	---	0.072	1982
1982	---	---	0	3.29	0.754	0.101	0.134	0.014	0	0	---	---	0.528	1983
1983	---	---	0	0.027	0.007	1.79	0.251	0.027	0	0	---	---	0.289	1983
1984	---	---	0	2.17	1.05	4.32	0	0	0.254	0.015	---	---	0.980	1984
1985	---	---	0	5.34	0.275	0.001	0.032	0.014	1.09	0.881	---	---	0.939	1985
1986	---	---	0.480	5.11	1.70	0.183	0.843	0.011	0.112	0	---	---	1.17	1986
1987	---	---	1.47	9.44	3.48	0.001	0	0	0	0	---	---	1.78	1987
1988	---	---	1.82	0.778	0.012	0.246	2.15	1.36	3.31	0.173	---	---	1.24	1988
1989	---	---	0	3.22	0.279	0.207	0.013	0	0	0.030	---	---	0.461	1989
1970	---	---	0	3.91	1.73	1.02	0.005	0	0.085	0	---	---	0.830	1970
1971	---	---	0	3.07	0.032	0.028	0	0	0	0	---	---	0.383	1971
1972	---	---	0.502	1.31	0	0	0	0	0	0	---	---	0.223	1972
1973	---	---	0.375	0.002	0	0.148	0	0	0.136	0.373	---	---	0.130	1973
1974	---	---	0	6.86	2.78	0.105	0	0	0	0	---	---	1.18	1974
1975	---	---	0	1.23	0.168	0.885	0.130	0.002	0.001	0.001	---	---	0.274	1975
1976	---	---	0	2.08	0	0.052	0.001	0	0	0	---	---	0.261	1976
1977	---	---	0.026	0.274	0	0	0	0	0	0	---	---	0.037	1977
1978	---	---	0.738	1.80	0.003	0	0	0	0.011	0	---	---	0.328	1978
1979	---	---	0	7.86	0.374	0.267	0.008	0	0	0	---	---	1.06	1979
1980	---	---	0.003	1.00	0	0	0.001	0	0.001	0.003	---	---	0.124	1980
1981	---	---	0.325	0.044	0.014	0.003	0	0	0	0.001	---	---	0.043	1981
1982	---	---	0.166	1.28	0.006	0.034	0.293	0.026	0	0.134	---	---	0.242	1982
1983	---	---	1.18	2.07	0.104	0.005	0.001	0	0	0	---	---	0.414	1983
1984	---	---	0.151	0.182	0.003	0.105	0.002	0	0	0	---	---	0.055	1984
MEAN	---	---	0.298	2.72	0.511	0.372	0.154	0.058	0.199	0.084	---	---	0.541	MEAN

LOCATION - LAT 49 08 01 N DRAINAGE AREA, 177 km²
LONG 97 08 42 W NATURAL FLOW

MAIN DRAIN NEAR DOMINION CITY - STATION NO. 05DD028

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1980	---	15.2 ON APR 6	0.0 ON MAR 1 *	11 100	1980
1981	---	1.97 B ON MAR 25	0.0 ON MAR 1	1 520	1981
1982	---	13.1 ON APR 23	0.0 ON MAR 1	11 200	1982
1983	---	12.9 ON JUN 25	0.0 ON MAR 1	6 470	1983
1984	---	35.4 ON JUN 12	0.0 ON MAR 1	20 300	1984
1985	---	24.4 B ON APR 12	0.0 ON MAR 1	19 900	1985
1986	---	18.8 B ON APR 2	0.0 ON MAR 1	24 700	1986
1987	---	28.8 ON MAR 31	0.0 ON MAR 1	37 700	1987
1988	---	18.8 ON SEP 7	0.0 ON MAR 1	28 300	1988
1989	---	10.7 ON APR 11	0.0 ON MAR 1	9 780	1989
1970	---	9.06 ON APR 22	0.0 ON MAR 1	17 800	1970
1971	---	16.2 ON APR 6	0.0 ON MAR 1	6 120	1971
1972	---	2.69 B ON APR 11	0.0 ON MAR 1	4 720	1972
1973	---	4.59 ON OCT 10	0.0 ON MAR 1	2 740	1973
1974	28.4 AT 20:00 CST ON APR 21	28.0 ON APR 17	0.0 ON MAR 1	24 900	1974
1975	7.56 AT 04:27 CST ON JUN 29	7.42 ON JUN 29	0.0 ON MAR 1	5 810	1975
1976	18.4 B AT 02:06 CST ON APR 5	16.5 B ON APR 3	0.0 ON MAR 1	6 830	1976
1977	4.87 AT 22:33 CST ON APR 9	2.38 ON APR 10	0.0 ON MAR 1	781	1977
1978	10.6 AT 10:10 CST ON APR 8	6.47 ON APR 8	0.0 ON MAR 1	8 980	1978
1979	49.7 AT 12:30 CST ON APR 18 *	45.6 ON APR 18 *	0.0 ON MAR 1	22 300	1979
1980	---	4.53 ON APR 7	0.0 ON MAR 1	2 820	1980
1981	---	0.5008 ON MAR 1	0.0 ON APR 22	1 030	1981
1982	9.85 AT 21:51 CST ON APR 14	6.85 ON APR 15	0.0 ON MAR 1	6 110	1982
1983	10.2 B AT 17:03 CST ON APR 4	8.34 B ON APR 8	0.0 ON MAR 1	8 780	1983
1984	1.808 AT 23:42 CST ON MAR 31	1.30 B ON MAR 31	0.0 ON MAR 1	1 180	1984
				11 400	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MAIN DRAIN NEAR FREDENSTHAL - STATION NO. 05OD029

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0.010	0.852	0	0	0	0	0	0	---	---	0.081	1980
1981	---	---	0.022	0.036	0	0	0	0	0	0	---	---	0.007	1981
1982	---	---	0	0.427	0.078	0	0	0.004	0	0	---	---	0.063	1982
1983	---	---	0.001	0.004	0	0.818R	0.008	0.006	0	0	---	---	0.114R	1983
1984	---	---	0	0.211	0.033	0.494	0.002	0	0.051	0.003	---	---	0.087	1984
1985	---	---	0	0.171	0.028	0	0.287	0.087	0.332	0.246	---	---	0.138	1985
1986	---	---	0.374	1.11	0.281	0.001	0.161	0.015	0.092	0	---	---	0.250	1986
1987	---	---	0.058	0.888	0.213	0	0	0	0	0	---	---	0.118	1987
1988	---	---	0.580	0.048	0	0.007	0.072	0.208	0.152	0	---	---	0.132	1988
1989	---	---	0	0.258	0.004	0.018	0	0	0	0	---	---	0.035	1989
1970	---	---	0	0.700	0.307	0.028	0	0	0.033	0	---	---	0.132	1970
1971	---	---	0	0.883	0	0.007	0	0	0	0	---	---	0.070	1971
1972	---	---	0.098	0.248	0	0	0	0	0	0	---	---	0.043	1972
1973	---	---	0.048	0	0	0.008	0	0	0.001	0.088	---	---	0.018	1973
1974	---	---	0	0.888	0.205	0	0	0.002	0	0	---	---	0.135	1974
1975	---	---	0	0.183	0.017	0.028	0.008	0	0	0	---	---	0.038	1975
1976	---	---	0	0.278	0	0.001	0	0	0	0	---	---	0.034	1976
1977	---	---	0.048	0.027	0.003	0.001	0.001	0	0.001	0	---	---	0.010	1977
1978	---	---	0.184	0.181	0.001	0	0.001	0.001	0.014	0	---	---	0.048	1978
1979	---	---	0	1.88	0.022	0.015	0	0	0	0	---	---	0.210	1979
1980	---	---	0.001	0.148	0	0	0	0	0	0.001	---	---	0.018	1980
1981	---	---	0.032	0.006	0	0.002	0	0	0	0.002	---	---	0.005	1981
1982	---	---	0.049	0.333	0.001	0.020	0.117	0.005	0	0.071	---	---	0.074	1982
MEAN	---	---	0.095	0.384	0.052	0.087R	0.027	0.013	0.028	0.017	---	---	0.081	MEAN

LOCATION - LAT 49 02 42 N
LONG 97 03 18 W
DRAINAGE AREA, 23.3 km²
NATURAL FLOW

R - REVISED SINCE JAN 1980

MAIN DRAIN NEAR FREDENSTHAL - STATION NO. 05OD029

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1980	---	3.43 ON APR 8	0B ON MAR 1 *	1 720	1980
1981	---	0.2158 ON APR 2	0B ON MAR 1	152	1981
1982	---	4.53 ON APR 21	0B ON MAR 1	1 330	1982
1983	---	8.50 R ON JUN 3	0 ON MAR 1	2 420R	1983
1984	---	8.97 ON JUN 12	0B ON MAR 1	2 080	1984
1985	---	4.47 ON JUL 30	0B ON MAR 1	2 830	1985
1986	---	8.91 ON APR 2	0B ON MAR 1	5 280	1986
1987	---	3.17 ON APR 21	0B ON MAR 1	2 800	1987
1988	---	3.57 ON AUG 26	0B ON MAR 1	2 800	1988
1989	---	1.38 ON APR 11	0B ON MAR 1	731	1989
1970	---	4.73 ON APR 18	0B ON MAR 1	2 780	1970
1971	---	5.01 ON APR 7	0B ON MAR 1	1 480	1971
1972	---	0.6808 ON APR 10	0B ON MAR 1	804	1972
1973	---	0.597 ON OCT 8	0B ON MAR 1	330	1973
1974	---	8.50 B ON APR 15	0B ON MAR 1	2 850	1974
1975	---	2.48 ON APR 13	0B ON MAR 1	633	1975
1976	---	2.57 B ON APR 3	0B ON MAR 1	726	1976
1977	---	0.7848 ON MAR 28	0B ON MAR 1	214	1977
1978	1.78 AT 08:00 CST ON APR 8	1.34 B ON MAR 28	0B ON MAR 1	881	1978
1979	13.1 B AT 18:21 CST ON APR 15 *	12.1 B ON APR 15 *	0B ON MAR 1	4 480	1979
1980	1.87 AT 18:42 CST ON APR 3	1.80 B ON APR 3	0B ON MAR 1	387	1980
1981	0.1478 AT 21:10 CST ON MAR 28	0.1238 ON MAR 1	0B ON MAR 5	112	1981
1982	2.73 B AT 18:36 CST ON APR 12	2.25 B ON APR 12	0B ON MAR 1	1 670	1982
				1 710R	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

MAIN DRAIN NEAR RIDGEVILLE - STATION NO. 05OD033

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	0.265	0.844	0.021	0	0	0	0	0	---	---	0.115	1983
1984	---	---	0.111	0.035	0	0.003	0	0	0	0.003	---	---	0.019	1984
MEAN	---	---	0.188	0.340	0.011	0.002	0	0	0	0.002	---	---	0.067	MEAN

LOCATION - LAT 49 03 40 N
LONG 97 04 10 W
DRAINAGE AREA, 46.5 km²
NATURAL FLOW

MAIN DRAIN NEAR RIDGEVILLE - STATION NO. 05OD033

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1983	8.88B AT 18:51 CST ON APR 8 *	2.63B ON APR 8 *	0B ON MAR 1 *	2 440	1983
1984	3.03B AT 00:34 CST ON MAR 28	1.62B ON MAR 28	0B ON MAR 1	405	1984
				1 420	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MANIGOTAGAN RIVER NEAR MANIGOTAGAN - STATION NO. 05RA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	3.66	3.99	4.25	5.67	12.1	8.62	4.67	2.73	2.30	2.43	1.81	1.56	4.52	1913
1914	1.36	1.13	1.13	2.26	5.19	9.76	12.0	3.84	2.71	5.77	3.39	2.53	4.37	1914
1915	1.42	1.42	1.42	13.3	23.0	14.4	7.28	3.85	3.51	5.14	10.2	5.10	7.81	1915
1916	2.83	2.83	2.83	19.0	37.6	33.3	29.2	25.0	22.7	---	---	---	---	1916
1919	---	---	---	---	---	17.6	28.9	19.0	10.9	13.6	14.7	---	---	1919
1921	---	---	---	---	---	31.3	22.5	15.0	4.98	---	---	---	---	1921
1960	---	---	3.83	24.6	41.4	19.7	4.91	1.30	0.956	1.45	1.67	1.30	---	1960
1961	1.31	1.64	2.11	14.5	32.7	14.1	4.37	1.24	0.294	0.164	0.111	0.115	5.07	1961
1962	0.103	0.118	0.887	4.04	23.3	30.4	15.0	35.7	35.7	12.3	6.95	8.89	14.7	1962
1963	5.11	3.48	3.34	20.8	37.7	32.6	14.9	5.71	6.83	3.00	2.33	1.68	11.9	1963
1964	1.11	1.68	1.68	8.18	57.8	24.4	12.0	9.80	8.61	9.64	6.78	5.69	12.3	1964
1965	3.72	2.30	2.48	11.0	40.9	31.2	13.1	5.72	4.64	5.04	6.66	5.88	11.2	1965
1966	5.38	4.89	4.33	12.1	28.2	20.7	14.1	6.69	4.77	3.38	3.14	3.64	9.28	1966
1967	4.66	4.65	4.59	14.2	42.2	24.1	9.67	5.63	3.32	1.88	1.61	1.18	9.83	1967
1968	0.961	0.835	1.03	3.64	13.2	21.3	20.0	12.5	19.2	15.2	12.3	8.60	10.7	1968
1969	6.50	6.10	4.81	14.3	21.9	14.8	13.0	9.88	7.88	9.76	9.08	6.80	10.3	1969
1970	5.26	3.79	3.38	8.06	26.6	35.8	16.2	6.93	3.58	2.47	4.61	9.20	10.5	1970
1971	6.38	4.17	3.19	16.4	27.3	11.4	6.76	2.55	2.16	2.18	2.44	2.17	7.44	1971
1972	2.29	2.71	2.83	13.6	30.6	9.17	3.87	2.18	1.61	1.44	1.75	2.32	8.20	1972
1973	2.58	2.51	2.50	8.33	17.5	10.6	8.03	6.41	7.23	13.6	17.6	11.9	9.20	1973
1974	7.77	8.41	8.41	16.2	74.0	48.1	8.11	1.88	2.43	3.88	4.28	3.87	14.9	1974
1975	3.71	3.87	3.32	8.92	21.0	14.4	8.56	5.88	5.57	4.98	3.78	2.92	7.11	1975
1976	2.79	2.57	2.72	12.5	19.0	9.38	5.52	3.02	2.56	2.66	2.50	2.21	5.63	1976
1977	1.62	1.79	1.64	1.68	1.46	1.57	3.07	3.47	13.7	17.5	10.2	7.23	5.47	1977
1978	5.69	4.64	3.69	10.1	25.6	24.3	26.1	10.6	7.06	5.18	4.20	3.24	10.9	1978
1979	2.82	2.52	2.58	14.7	48.5	42.6	12.8	4.75	3.23	2.82	2.64	2.42	11.8	1979
1980	2.40	2.46	2.53	5.98	8.23	8.27	3.47	2.73	3.23	4.90	5.07	4.53	4.40	1980
1981	3.36	2.76	2.62	3.57	3.07	4.52	4.46	7.48	10.3	7.76	6.68	3.91	5.06	1981
1982	2.65	2.20	2.37	7.18	16.9	19.9	15.0	13.0	5.87	4.71	4.26	3.76	8.02	1982
1983	3.02	2.96	2.93	4.80	8.75	13.0	13.9	5.71	3.14	2.83	2.57	2.39	5.34	1983
1984	2.07	2.01	2.28	4.64	7.19	16.8	20.0	8.22	3.88	5.30	12.4	10.8	8.14	1984
MEAN	3.35	2.90	2.79	10.6	25.9	19.9	12.3	8.16	6.83	6.00	5.82	4.48	8.63	MEAN

LOCATION - LAT 51 05 54 N DRAINAGE AREA, 1 800 km²
LONG 98 17 00 W NATURAL FLOW

MANIGOTAGAN RIVER NEAR MANIGOTAGAN - STATION NO 05RA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1913	---	13.5 ON MAY 19	1.36 ON SEP 26	142 000	1913
1914	---	17.6 ON JUL 6	1.10 B ON FEB 21	138 000	1914
1915	---	31.4 ON APR 28	1.42 B ON JAN 1	240 000	1915
1916	---	38.6 ON MAY 4	2.83 B ON JAN 1	---	1916
1919	---	32.6 ON JUL 10	---	---	1919
1921	---	---	---	---	1921
1960	---	58.6 ON APR 21	0.510 ON AUG 16	---	1960
1961	---	49.6 ON APR 22	0.085 ON NOV 1 *	191 000	1961
1962	---	58.6 ON AUG 24	0.089 ON JAN 1	463 000	1962
1963	---	46.2 ON MAY 21	1.30 ON DEC 30	378 000	1963
1964	---	72.8 ON MAY 9	0.960 ON JAN 17	380 000	1964
1965	---	50.1 ON MAY 27	1.83 B ON MAR 10	353 000	1965
1966	---	37.4 ON MAY 19	2.80 ON NOV 14	283 000	1966
1967	47.6 AT 17:00 CST ON MAY 12	46.4 ON MAY 9	0.949 ON DEC 28	310 000	1967
1968	23.2 AT 20:00 CST ON JUN 11	23.1 ON JUN 12	0.532 ON FEB 21	340 000	1968
1969	33.1 AT 12:00 CST ON APR 16	32.3 ON APR 16	3.85 ON MAR 29	326 000	1969
1970	43.0 AT 17:00 CST ON JUN 8	42.5 ON JUN 8	2.12 ON OCT 23	332 000	1970
1971	53.5 AT 13:45 CST ON MAY 5	51.8 ON APR 20	1.71 ON AUG 18	235 000	1971
1972	41.1 AT 11:51 CST ON MAY 7	41.1 ON MAY 7	1.29 ON OCT 18	198 000	1972
1973	22.8 AT 06:53 CST ON NOV 1	22.7 ON NOV 1	2.05 ON MAR 9	280 000	1973
1974	104 AT 15:32 CST ON MAY 8 *	103 ON MAY 8 *	1.80 ON JUL 28	470 000	1974
1975	25.6 AT 19:55 CST ON MAY 15	25.3 ON MAY 15	2.36 B ON DEC 12	224 000	1975
1976	24.1 AT 21:29 CST ON MAY 9	23.8 ON MAY 9	1.88 ON DEC 28	176 000	1976
1977	37.4 AT 16:34 CST ON SEP 10	34.0 ON SEP 10	1.38 ON MAY 23	173 000	1977
1978	35.4 AT 16:51 CST ON MAY 17	34.8 ON MAY 17	2.97 B ON DEC 29	345 000	1978
1979	87.3 AT 17:49 CST ON MAY 31	86.3 ON JUN 1	3.22 ON DEC 30	376 000	1979
1980	11.5 AT 13:11 CST ON APR 21	11.4 ON APR 21	2.18 ON JAN 3	139 000	1980
1981	11.7 AT 15:37 CST ON SEP 6	11.3 ON SEP 12	2.22 ON MAY 20	159 000	1981
1982	22.1 AT 17:09 CST ON MAY 22	21.8 ON MAY 21	1.71 B ON FEB 27	253 000	1982
1983	22.4 AT 13:26 CST ON JUN 22	20.0 ON JUN 22	2.19 B ON DEC 25	188 000	1983
1984	32.8 AT 16:27 CST ON JUN 23	32.4 ON JUN 23	1.85 B ON JAN 10	257 000	1984
				272 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MANNES DRAIN NEAR SANFORD - STATION NO. 05DG010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.130R	0.008R	0.110R	0.021R	0.004R	OR	OR	OR	---	---	0.033R	1981
1982	---	---	0.010	0.348	0	0	0	0	0	0	---	---	0.044	1982
1983	---	---	0.059	1.18	0.001	0.042	0.002	0	0	0	---	---	0.155	1983
1984	---	---	0.013	0.085	0.007	0.002	0.002	0	0	0	---	---	0.015	1984
MEAN	---	---	0.051R	0.403R	0.030R	0.018R	0.002R	OR	OR	OR	---	---	0.062	MEAN

LOCATION - LAT 49 37 14 N
LONG 97 22 32 W NATURAL FLOW

DATA CONTRIBUTED BY - MANITOBA WATER RESOURCES BRANCH

R - REVISED SINCE JAN 1980

MANNES DRAIN NEAR SANFORD - STATION NO. 05DG010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	3.02 R AT 02:43 CST ON MAY 23	1.94 R ON MAY 23	ORB ON MAR 1 *	705R	1981
1982	2.26 AT 06:36 CST ON APR 13	1.77 ON APR 13	OB ON MAR 1	826	1982
1983	5.39 AT 20:58 CST ON APR 8 *	5.84 ON APR 7 *	OB ON MAR 1	3 290	1983
1984	0.661 AT 18:48 CST ON APR 2	0.548 ON APR 2	OB ON MAR 1	313	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980		1 310R	MEAN

MANNING CANAL NEAR ILE DES CHENES - STATION NO. 05DE005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.943	0.400	0.214	0.283	0	0	0	0	---	---	0.230	1981
1982	---	---	0	3.79	1.80	0.490	0.118	0.085	0.101	0.031	---	---	0.788	1982
1983	---	---	1.03	0.890	0.211	3.01	0.189	0.704	0	0	---	---	0.723	1983
1984	---	---	0	2.84	---	---	---	---	---	---	---	---	---	1984
1985	---	---	0	5.02	1.04	0.851	0.068	0.001	0.023	0.151	---	---	0.858	1985
1986	---	---	0.087	8.78	4.04	0.858	8.57	0.447	3.22	0.071	---	---	2.87	1986
1987	---	---	0.800	19.4	2.13	0.085	0.030	0.008	0.014	0.017	---	---	2.78	1987
1988	---	---	0.083	0.782	1.88	0.181	0.839	1.08	0.858	0.081	---	---	0.856	1988
1989	---	---	0	7.24	0.933	0.338	0.456	0.410	0.080	0.080	---	---	1.17	1989
1970	---	---	0	10.4	5.14	1.20	0.181	0.042	0.180	0.086	---	---	2.14	1970
1971	---	---	0	5.34	0.188	0.047	0.072	0.103	0.131	0.247	---	---	0.872	1971
1972	---	---	0.804	4.04	0.070	0.085	0.134	0.282	0.157	0.144	---	---	0.718	1972
1973	---	---	3.18	0.134	0.070	0.092	0.029	0.040	0.888	0.353	---	---	0.801	1973
1974	---	---	0	18.5	8.88	0.581	0.013	0.011	0.023	0	---	---	3.58	1974
1975	---	---	0	0.830	0.133	1.95	2.18	0.018	0.020	0.043	---	---	0.845	1975
1976	---	---	0	2.06	0.018	2.03	0.040	0.025	0.054	0.008	---	---	0.519	1976
1977	---	---	0.134	0.367	0.084	0.017	0.122	0.026	0.339	0.120	---	---	0.149	1977
1978	---	---	0.187	8.82	0.497	0.047	0.094	0.001	0.043	0.084	---	---	1.21	1978
1979	---	---	0	9.53	1.28	0.887	0.040	0.061	0.052	0.133	---	---	1.47	1979
1980	---	---	0	2.84	0.041	0.034	0.052	0.024	0.184	0.181	---	---	0.383	1980
1981	---	---	0.417	0.158	0.227	0.218	0.083	0.188	0.113	0.253	---	---	0.784	1981
1982	---	---	0.313	2.82	0.132	1.90	0.393	0.283	0.183	0.281	---	---	1.23	1982
1983	---	---	4.04	4.83	0.171	0.284	0.445	0.034	0.144	0.138	---	---	1.23	1983
1984	---	---	0.881	0.488	0.115	1.22	0.237	0.045	0.091	0.181	---	---	0.377	1984
MEAN	---	---	0.538	5.03	1.29	0.707	0.538	0.170	0.288	0.114	---	---	1.09	MEAN

LOCATION - LAT 49 37 50 N DRAINAGE AREA, 490 km^2
LONG 96 54 20 W NATURAL FLOW

MANNING CANAL NEAR ILE DES CHENES - STATION NO. 05DE005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	11.8 B ON MAR 26	OB ON MAR 1 *	4 880	1981
1982	---	37.4 ON APR 20	OB ON MAR 1	16 300	1982
1983	---	12.3 ON JUN 5	OB ON MAR 1	15 300	1983
1984	---	17.0 ON MAY 4	OB ON MAR 1	---	1984
1985	---	20.6 B ON APR 14	OB ON MAR 1	18 100	1985
1986	---	23.7 ON JUL 4	OB ON MAR 1	62 800	1986
1987	---	58.2 ON APR 21	OB ON MAR 1	58 800	1987
1988	---	15.9 ON MAY 15	OB ON MAR 1	13 900	1988
1989	---	31.4 ON APR 10	OB ON MAR 1	24 800	1989
1970	---	40.8 ON APR 15	OB ON MAR 1	45 300	1970
1971	---	45.3 ON APR 8	OB ON MAR 1	18 400	1971
1972	---	11.0 ON APR 15	OB ON MAR 1	15 200	1972
1973	---	13.6 B ON MAR 13	OB ON MAR 1	12 700	1973
1974	---	74.2 ON MAY 21 *	OB ON MAR 1	76 000	1974
1975	---	44.7 ON JUN 30	OB ON MAR 1	13 600	1975
1976	---	24.2 ON JUN 13	OB ON MAR 1	11 000	1976
1977	---	1.85 ON SEP 27	OB ON MAR 1	3 150	1977
1978	---	42.5 B ON APR 8	OB ON MAR 1	25 700	1978
1979	84.0 B AT 18:01 CST ON APR 19 *	81.2 B ON APR 19	OB ON MAR 1	31 200	1979
1980	29.0 B AT 06:38 CST ON APR 8	20.5 B ON APR 8	OB ON MAR 1	8 110	1980
1981	3.94 AT 08:00 CST ON JUN 28	3.82 ON JUN 28	0 ON JUL 13	4 430	1981
1982	---	13.8 B ON APR 13	OB ON MAR 1	16 800	1982
1983	28.6 B AT 06:52 CST ON APR 7	16.6 B ON APR 8	OB ON MAR 1	25 900	1983
1984	8.38 AT 08:58 CST ON JUN 13	7.71 ON JUN 13	OB ON MAR 1	7 850	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		33 000	MEAN

MANNING CANAL NEAR NIVERVILLE - STATION NO. 05QE005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	1.01	0.336	0.113	0.258	0	0	0	0	---	---	0.215	1981
1982	---	---	0	3.72	1.71	0.853	0.187	0.024	0.002	0	---	---	0.775	1982
1983	---	---	0.115	0.446	0.037	1.46	0.172	0.840	0	0	---	---	0.356	1983
1984	---	---	0	1.29	0.853	0.522	0.014	0.005	0.048	0.008	---	---	0.314	1984
1985	---	---	0	2.41	0.610	0.243R	0.018R	0.001R	0.035R	0.084R	---	---	0.420R	1985
1986	---	---	0.048	4.23	2.15	0.116	3.51	0.289	1.87	0.017	---	---	1.50	1986
1987	---	---	0.746	11.8	0.848	0.022	0.015	0	0.006	0.011	---	---	1.66	1987
1988	---	---	0.005	0.385	1.20	0.110	0.708	0.385	0.198	0.050	---	---	0.382	1988
1989	---	---	0	3.51	0.048	0.041	0.095	0.201	0.028	0.041	---	---	0.488	1989
1970	---	---	0	7.88	3.55	0.487	0.045	0.088	0.141	0.089	---	---	1.52	1970
1971	---	---	0	3.52	0.070	0.037	0.040	0.024	0.056	0.103	---	---	0.472	1971
1972	---	---	1.35	3.82	0.118	0.020	0.058	0.076	0.077	0.111	---	---	0.698	1972
1973	---	---	2.40	0.092	0.022	0.077	0.008	0.019	0.871	0.432	---	---	0.503	1973
1974	---	---	0	11.7	5.51	0.117	0	0.009	0.031	0.005	---	---	2.15	1974
1975	---	---	0	0.880	0.115	0.788	1.04	0.009	0.013	0.028	---	---	0.332	1975
1976	---	---	0	0.814	0.014	0.885	0.028	0.011	0.022	0.030	---	---	0.248	1976
1977	---	---	0.132	0.208	0.089	0.013	0.059	0.007	0.284	0.089	---	---	0.105	1977
MEAN	---	---	0.342	3.36	0.982	0.350R	0.351R	0.104R	0.210R	0.082R	---	---	0.714	MEAN

LOCATION - LAT 49 36 10 N
LONG 96 50 50 W
DRAINAGE AREA, 277 km²
NATURAL FLOW

R - REVISED SINCE JAN 1980

MANNING CANAL NEAR NIVERVILLE - STATION NO. 05QE005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1981	---	8.95B ON MAR 25	0B ON MAR 1 *	4 550	1981
1982	---	25.5 E ON APR 18	0B ON MAR 1	16 400	1982
1983	---	4.73 ON AUG 4	0B ON MAR 1	7 540	1983
1984	---	4.28 ON MAY 5	0B ON MAR 1	8 640	1984
1985	---	12.8 B ON APR 14	0B ON MAR 1	8 880R	1985
1986	---	16.0 ON JUL 4	0B ON MAR 1	31 700	1986
1987	---	47.8 ON APR 21 *	0B ON MAR 1	35 200	1987
1988	---	9.71 ON MAY 15	0B ON MAR 1	8 070	1988
1989	---	21.7 ON APR 10	0B ON MAR 1	10 300	1989
1970	---	28.6 ON APR 15	0B ON MAR 1	32 200	1970
1971	---	27.8 ON APR 8	0B ON MAR 1	9 890	1971
1972	---	9.008 ON APR 12	0B ON MAR 1	14 700	1972
1973	---	11.2 B ON MAR 13	0B ON MAR 1	10 700	1973
1974	---	46.7 ON MAY 21	0B ON MAR 1	45 800	1974
1975	---	13.8 ON JUN 30	0B ON MAR 1	7 020	1975
1976	---	12.3 ON JUN 13	0B ON MAR 1	5 200	1976
1977	---	1.44 ON SEP 27	0B ON MAR 1	2 290	1977
				15 100R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

MARSH RIVER ABOVE CONFLUENCE WITH RAT RIVER - STATION NO. 05QE008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1989	---	---	0	13.9	18.0	0.078	0.178	0.042	0.010	0.174	---	---	4.17	1989
1970	---	---	0	17.1	17.8	0.921	0.081	0.005	0.178	0.005	---	---	4.48	1970
MEAN	---	---	0	15.5	18.3	0.499	0.134	0.024	0.094	0.090	---	---	4.32	MEAN

LOCATION - LAT 49 31 50 N
LONG 97 05 30 W
DRAINAGE AREA, 451 km²
NATURAL FLOW

MARSH RIVER ABOVE CONFLUENCE WITH RAT RIVER - STATION NO. 05QE008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1989	---	52.4 ON MAY 1 *	0B ON MAR 1 *	88 400	1989
1970	---	44.2 ON MAY 1	0B ON MAR 1	94 400	1970
				91 400	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MARSH RIVER NEAR OTTERBURNE - STATION NO. 05DE010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	0	7.05	0.187	0.020	0.003	0	0	0	---	---	0.888	1971
1972	---	---	0.012	3.63	0.187	0.010	0.001	0.001	0.001	0.001	---	---	0.483	1972
1973	---	---	0.385	0.337	0.027	0.003	0	0	0.044	0	---	---	0.099	1973
1974	---	---	0	25.1	18.9	0.837	0.018	0	0	0	---	---	5.68	1974
1975	---	---	0	0.791	5.62	0.782	2.11	0.007	0	0	---	---	1.17	1975
1976	---	---	0	3.73	0.078	0.090	0.022	0	0	0	---	---	0.481	1976
1976	---	---	0	0.208	0.128	0.125	0.006	0	0.012	0.005	---	---	0.069	1977
1977	---	---	0	26.8	2.82	0	0.012	0	0	0	---	---	3.66	1978
1978	---	---	0.096	27.1	85.5	0.588	0.001	0.001	0	0.001	---	---	10.4	1979
1979	---	---	0	2.82	0.074	0.018	0.001	0.004	0.002	0.010	---	---	0.334	1980
1980	---	---	0	0.320	0.405	0.539	0.144	0.141	0.092	0.044	---	---	0.284	1981
1981	---	---	0.668	3.14	0.172	0.469	0.131	0.028	0	0	---	---	0.489	1982
1982	---	---	0.122	7.58	0.228	0	0	0	0	0	---	---	1.14	1983
1983	---	---	1.42	0.178	0.040	0.827	0.162	0.017	0	0	---	---	0.155	1984
1984	---	---	0.033	---	---	---	---	---	0	0	---	---	---	MEAN
MEAN	---	---	0.195	7.77	5.02	0.311	0.187	0.014	0.011	0.004	---	---	1.80	

LOCATION - LAT 49 30 00 N DRAINAGE AREA, 445 km²
LONG 97 09 20 W NATURAL FLOW

MARSH RIVER NEAR OTTERBURNE - STATION NO. 05DE010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1971	---	42.8 ON APR 11	0 B ON MAR 1 *	18 800	1971
1972	---	10.4 ON APR 18	0 B ON MAR 1	10 400	1972
1973	---	0.755 ON APR 8	0 B ON MAR 1	2 100	1973
1974	---	89.9 ON APR 21	0 B ON MAR 1	118 000	1974
1975	---	16.1 ON MAY 12	0 B ON MAR 1	24 800	1975
1976	---	15.7 ON APR 10	0 B ON MAR 1	10 200	1976
1976	---	0.7708 ON APR 14	0 B ON MAR 1	1 280	1977
1977	---	42.2 B ON APR 23	0 B ON MAR 1	77 500	1978
1978	42.5 B AT 12:14 CST ON APR 23	93.0 ON MAY 6 *	0 B ON MAR 1	221 000	1979
1979	93.6 AT 21:14 CST ON MAY 6 *	8.67 B ON APR 10	0 B ON MAR 1	7 070	1980
1980	7.32 AT 08:38 CST ON APR 10	4.25 ON MAY 31	0.001 ON JUL 29	6 220	1981
1981	4.46 AT 08:55 CST ON MAY 31	14.3 ON APR 18	0 B ON MAR 1	10 800	1982
1982	14.7 AT 09:45 CST ON APR 18	25.0 B ON APR 7	0 B ON MAR 1	24 000	1983
1983	---	3.24 ON JUN 10	0 B ON MAR 1	3 270	1984
1984	3.35 AT 07:48 CST ON JUN 10			38 200	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MARY JANE CREEK AT LA RIVIERE - STATION NO. 05DB013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0.002	3.15	0.084	0.038	0.008	0.008	0.008	0.012	---	---	0.807	1980
1981	---	---	0.180	0.301	0.051	0.028	0.022	0.024	0.035	0.038	---	---	0.142	1981
1982	---	---	0	2.08	0.150	0.048	0.028	0.019	0.018	0.013	---	---	0.580	1982
1983	---	---	0.142	0.072	0.041	0.105	0.048	0.034	0.029	0.025	---	---	0.081	1983
1984	---	---	0.028	0.524	0.071	0.024	0.032	0.025	0.022	0.018	---	---	0.180	1984
1985	---	---	0	1.63	0.124	0.030	0.013	0.010	0.018	0.018	---	---	0.441	1985
1986	---	---	1.04	1.18	0.541	0.036	0.012	0.008	0.008	0.008	---	---	0.702	1986
1987	---	---	0.018	1.70 R	0.248	0.011	0.011	0	0	0	---	---	0.488R	1987
1988	---	---	0.835	0.205	0.284	0.115	0.413	0.844	0.311	0.068	---	---	0.388	1988
1989	---	---	0.018	4.78	0.140	0.186	0.382	0.025	0.014	0.013	---	---	1.25	1989
1970	---	---	0	4.71	1.53	0.117	0.181	0.027	0.017	0.012	---	---	1.57	1970
1971	---	---	0	0.781	0.088	0.040	0.010	0.010	0.010	0.016	---	---	0.224	1971
1972	---	---	1.80	2.13	0.091	0.021	0.014	0.012	0.011	0.011	---	---	0.859	1972
1973	---	---	0.019	0.014	0.018	0.021	0.020	0.014	0.008	0.008	---	---	0.018	1973
1974	---	---	0.002	4.36	1.83	0.078	0.010	0.008	0.003	0.004	---	---	1.58	1974
1975	---	---	0	0.881	0.197	0.077	0.081	0.008	0.004	0.003	---	---	0.239	1975
1976	---	---	0.002	3.16	0.098	0.018	0.003	0.001	0	0	---	---	0.805	1976
1976	---	---	0	0	0.050	0.118	0.020	0	0.058	0.043	---	---	0.042	1977
1977	---	---	0.026	1.77	0.138	0.038	---	---	---	---	---	---	0.487	1978
1978	---	---	0.001	2.08	0.818	0.343	---	---	---	---	---	---	0.839	1979
1979	---	---	---	---	---	---	---	---	---	---	---	---	---	1980
1980	---	---	0.001	0.378	0.091	0.048	---	---	---	---	---	---	0.128	1981
1981	---	---	0.087	0.025	0.021	0.008	---	---	---	---	---	---	0.038	1982
1982	---	---	0.023	0.518	0.024	0.028	---	---	---	---	---	---	0.148	1983
1983	---	---	---	---	---	---	---	---	---	---	---	---	---	1984
1984	---	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MEAN	---	---	0.180	1.57 R	0.301	0.067	0.072	0.088	0.032	0.017	---	---	0.526	

LOCATION - LAT 49 14 21 N DRAINAGE AREA, 135 km²
LONG 96 40 28 W REGULATED

R - REVISED SINCE JAN 1980

MARY JANE CREEK AT LA RIVIERE - STATION NO. 05OB013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	13.8 ON APR 12	0 B ON MAR 1 *	8 520	1980
1981	---	1.20 B ON MAR 28	0.017 ON JUN 25	1 490	1981
1982	---	11.2 ON APR 15	0 B ON MAR 1	5 810	1982
1983	---	0.8548 ON MAR 25	0 B ON MAR 1	955	1983
1984	---	3.57 ON APR 11	0.008 ON JUN 9	1 890	1984
1985	---	8.55 B ON APR 12	0 B ON MAR 1	4 840	1985
1986	---	3.77 B ON MAR 30	0 B ON MAR 1	7 400	1986
1987	---	10.7 R ON APR 21	0 B ON MAR 1	5 140R	1987
1988	---	3.71 ON MAR 27	0 B ON MAR 1	4 090	1988
1989	---	32.0 ON APR 10 *	0.0148 ON MAR 1	13 200	1989
1970	---	27.8 ON APR 25	0 B ON MAR 1	16 600	1970
1971	---	3.08 ON APR 19	0 B ON MAR 1	2 380	1971
1972	---	3.82 B ON MAR 21	0 B ON MAR 1	10 100	1972
1973	---	0.851 ON MAR 24	0 B ON MAR 1	193	1973
1974	---	21.0 ON APR 17	0.0028 ON MAR 1	16 700	1974
1975	---	1.94 B ON APR 13	0 B ON MAR 1	2 520	1975
1976	---	14.8 ON APR 7	0.0028 ON MAR 1	8 490	1976
1977	---	0.351 ON JUN 20	0 B ON MAR 1	439	1977
1978	---	5.75 ON APR 8	0.0058 ON MAR 1	5 130	1978
1979	---	12.0 E ON APR 22	0 B ON APR 11	8 740	1979
1980	---	1.82 ON APR 7	0 ON MAR 31	1 380	1980
1981	---	0.2319 ON MAR 16	0 B ON MAR 1	378	1981
1982	1.888 AT 12:00 CST ON APR 13 *	1.44 B ON APR 13	0 B ON MAR 1	1 540	1982
				5 550R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

MCKINNON CREEK NEAR MCCREARY - STATION NO. 05LJ027

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0	0.383	0.879	0.180	0.088	0.022	0.052R	0.391	---	---	0.222R	1959
1960	---	---	0	1.29	1.04	0.303	0.032	0.058	0.030	0.088	---	---	0.352	1960
1961	---	---	0.017	0.315	0.438	0.034	0.002	0	0	0.008	---	---	0.102	1961
1962	---	---	0	0.355	0.488	0.349	0.078	0.037	0.038	0.082	---	---	0.177	1962
1963	---	---	0.315	2.05	0.822	0.826	0.097	0.041	0.047	0.047	---	---	0.502	1963
1964	---	---	0	0.774	0.342	0.074	0.039	0.014	0.017	0.021	---	---	0.158	1964
1965	---	---	0.014	0.549	1.18	0.403	0.133	0.073	0.708	0.182	---	---	0.405	1965
1966	---	---	0.262	0.822	0.710	0.148	0.071	0.038	0.083	0.083	---	---	0.275	1966
1967	---	---	0.028	0.845	1.45	0.188	0.073	0.028	0.001	0.073	---	---	0.333	1967
1968	---	---	0.056	0.391	0.385	0.222	0.224	0.209	0.140	0.102	---	---	0.216	1968
1969	---	---	0	1.43	0.388	0.835	0.585	0.087	0.128	0.151	---	---	0.445	1969
1970	---	---	0.037	0.848	2.54	0.851	0.287	0.088	0.115	0.179	---	---	0.588	1970
1971	---	---	0	1.10	0.341	1.81	0.352	0.088	0.088	0.508	---	---	0.505	1971
1972	---	---	0.058	1.02	0.849	0.183	0.078	0.054	0.030	0.041	---	---	0.289	1972
1973	---	---	0.082	0.282	0.312	0.443	0.088	0.110	0.238	0.301	---	---	0.229	1973
1974	---	---	0	1.68	2.32	0.502	0.148	0.078	0.078	0.088	---	---	0.610	1974
1975	---	---	0	0.708	1.01	1.04	0.137	0.877	3.11	0.958	---	---	0.972	1975
1976	---	---	0.001	3.41	0.519	0.588	0.120	0.052	0.038	0.045	---	---	0.589	1976
1977	---	---	0.008	0.188	0.212	0.093	0.414	0.063	0.378	0.153	---	---	0.188	1977
1978	---	---	0.006	0.865	0.337	0.128	0.081	0.025	0.080	0.084	---	---	0.208	1978
1979	---	---	0.003	0.813	2.13	0.403	0.092	0.051	0.044	0.053	---	---	0.448	1979
1980	---	---	0.001	0.524	0.088	0.028	0.021	0.068	0.091	0.171	---	---	0.124	1980
1981	---	---	0.148	0.239	0.342	0.518	0.099	0.058	0.044	0.075	---	---	0.188	1981
1982	---	---	0.010	1.47	0.546	0.178	0.083	0.034	0.072	0.134	---	---	0.308	1982
1983	---	---	0	1.18	0.903	0.548	0.670	0.072	0.095	0.074	---	---	0.441	1983
1984	---	---	0.052	0.280	0.517	0.540	0.183	0.002	0.118	0.318	---	---	0.248	1984
MEAN	---	---	0.043	0.920	0.788	0.424	0.158	0.091	0.224R	0.189	---	---	0.351	MEAN

LOCATION - LAT 50 48 00 N
LONG 99 28 48 W
DRAINAGE AREA, 78.2 km^2
NATURAL FLOW

R - REVISED SINCE JAN 1980

MCKINNON CREEK NEAR MCCREARY - STATION NO. 05LJ027

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	5.38 AT 21:30 CST ON MAY 3	2.61 ON MAY 4	0 B ON MAR 1 *	4 710R	1959
1960	5.18 AT 19:45 CST ON MAY 26	3.74 ON APR 21	0 B ON MAR 1	7 450	1960
1961	---	1.24 ON APR 30	0 B ON MAR 1	2 150	1961
1962	4.02 AT 07:10 CST ON MAY 30	3.45 ON MAY 30	0 B ON MAR 1	3 750	1962
1963	11.3 AT 19:00 CST ON APR 16	6.48 ON JUN 10	0 B ON MAR 1	10 800	1963
1964	5.89B AT 02:10 CST ON APR 25	4.36B ON APR 25	0 B ON MAR 1	3 360	1964
1965	8.01 AT 01:00 CST ON APR 30	5.07 ON APR 30	0.014B ON MAR 1	8 580	1965
1966	---	3.88 ON MAY 5	0.011B ON MAR 1	5 830	1966
1967	---	3.03 ON MAY 7	0 ON AUG 27	7 040	1967
1968	3.31 AT 00:30 CST ON APR 21	2.13 ON APR 21	0 B ON MAR 1	4 570	1968
1969	9.83 AT 08:35 CST ON JUN 27	7.58B ON APR 13	0 B ON MAR 1	9 400	1969
1970	8.81 AT 01:42 CST ON MAY 8	6.43 ON MAY 7	0.034 ON SEP 10	12 500	1970
1971	12.0 AT 13:28 CST ON JUN 6	8.34 ON JUN 6	0 B ON MAR 1	10 700	1971
1972	---	3.85B ON APR 25	0 B ON MAR 1	6 120	1972
1973	4.84 AT 20:40 CST ON JUN 20	2.85 ON JUN 20	0.011 ON JUL 23	4 850	1973
1974	8.52 AT 01:28 CST ON MAY 12	6.71 ON APR 27	0 B ON MAR 1	12 900	1974
1975	29.7 AT 10:07 CST ON SEP 19 *	28.6 ON SEP 19 *	0 B ON MAR 1	20 800	1975
1976	---	8.38B ON APR 6	0 B ON MAR 1	12 500	1976
1977	10.5 AT 00:52 CST ON JUL 12	4.81 ON JUL 12	0 B ON MAR 1	3 980	1977
1978	3.85 AT 00:08 CST ON APR 25	3.00 ON APR 24	0 B ON MAR 1	4 420	1978
1979	8.95 AT 08:01 CST ON MAY 17	7.27 ON MAY 17	0.003B ON MAR 1	9 490	1979
1980	2.01 AT 01:33 CST ON APR 19	1.35 ON APR 19	0 ON JUN 28	2 840	1980
1981	2.05 AT 20:30 CST ON JUN 15	1.36 ON JUN 15	0 B ON MAR 1	4 010	1981
1982	7.78B AT 22:17 CST ON APR 22	4.44 ON APR 23	0 B ON MAR 1	6 550	1982
1983	8.84B AT 23:43 CST ON APR 24	5.38B ON APR 24	0 B ON MAR 1	8 330	1983
1984	6.95 AT 13:01 CST ON JUN 23	5.05 ON JUN 23	0 B ON MAR 1	5 270	1984
				7 440R	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

MEDORA CREEK NEAR NAPINKA - STATION NO. 05NG020

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.378	0.125	0.078	0.071	0.020	0	0	0	---	---	0.084	1966
1967	---	---	0.002	0.220	0.089	0	0	0	0	0	---	---	0.040	1967
1968	---	---	0.023	0.007	0	0	0	0.136	0.237	0.029	---	---	0.054	1968
1969	---	---	0	2.99	0.415	0.115	0.170	0.024	0	0	---	---	0.457	1969
1970	---	---	0	1.36	0.520	0.010	0.001	0	0	0	---	---	0.234	1970
1971	---	---	0	0.183	0.007	0.385	0.386	0	0	0.003	---	---	0.117	1971
1972	---	---	0.873	0.214	0.038	0.136	0.084	0.020	0.022	0.001	---	---	0.187	1972
1973	---	---	0.015	0.005	0.013	0.004	0.001	0	0	0	---	---	0.005	1973
1974	---	---	0	2.84	0.708	0.098	0.009	0	0	0	---	---	0.482	1974
1975	---	---	0	3.84	1.10	0.144	0.026	0.123	0.087	0.208	---	---	0.659	1975
1976	---	---	0	8.80	0.329	0.178	0.011	0	0	0	---	---	1.14	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.377	0.008	0.003	0	0	0	0	---	---	0.048	1978
1979	---	---	0	1.05	0.139	0.008	0	0	0	0	---	---	0.147	1979
1980	---	---	0	0.008	0.002	0	0	0	0	0	---	---	0.001	1980
1981	---	0.082	0.048	0	0	0	0	0	0	0	---	---	0.008	1981
1982	---	---	0	1.85	0.001	0.008	0	0	0	0	---	---	0.228	1982
1983	---	---	0.282	1.18	0.004	0	0	0	0	0	---	---	0.180	1983
1984	---	---	0.072	0.003	0.072	0.012	0	0	0	0	---	---	0.020	1984
MEAN	---	0.082	0.085	1.31	0.188	0.080	0.037	0.018	0.018	0.013	---	---	0.214	MEAN

LOCATION - LAT 49 18 30 N, LONG 100 42 10 W
DRAINAGE AREA, 434 km^2
NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.510 AND 0 m^3/s OCCURRED IN FEB

MEDORA CREEK NEAR NAPINKA - STATION NO. 05NG020

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	1.70 E ON MAR 16	0E ON MAR 1 *	1 750	1966
1967	---	0.887 ON APR 8	0B ON MAR 1	840	1967
1968	---	0.858 ON AUG 26	0B ON MAR 1	1 140	1968
1969	---	15.3 ON APR 10	0B ON MAR 1	8 880	1969
1970	---	3.98 ON APR 8	0B ON MAR 1	4 880	1970
1971	---	1.43 ON JUN 23	0B ON MAR 1	2 480	1971
1972	---	4.30 ON MAR 21	0B ON MAR 1	3 960	1972
1973	---	0.088B ON MAR 22	0B ON MAR 1	101	1973
1974	---	8.75 B ON APR 18	0B ON MAR 1	8 780	1974
1975	---	12.7 ON APR 14	0B ON MAR 1	13 900	1975
1976	---	40.2 B ON APR 4 *	0B ON MAR 1	24 200	1976
1977	---	0 B ON MAR 1	0B ON MAR 1	0	1977
1978	---	2.82 B ON APR 8	0B ON MAR 1	1 010	1978
1979	---	12.3 ON APR 21	0B ON MAR 1	3 120	1979
1980	0.055 AT 08:16 CST ON APR 8	0.053 ON APR 18	0B ON MAR 1	28.4	1980
1981	---	0.232B ON MAR 1	0 ON MAR 25	128	1981
1982	14.2 AT 11:01 CST ON APR 14 *	11.5 ON APR 14	0B ON MAR 1	4 820	1982
1983	7.77 B AT 13:08 CST ON APR 2	6.52 B ON APR 4	0B ON MAR 1	3 810	1983
1984	1.33 AT 13:02 CST ON MAY 5	0.688B ON MAR 25	0B ON MAR 1	424	1984
				4 540	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

METCHANAIS CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	822	849	934	---	---	1 280	---	---	1 030	---	---	---	---	1971
1972	725	714	754	883	1 170	1 250	1 180	1 110	1 010	942	844	887	940	1972
1973	814	830	820	728	888	1 250	1 400	1 380	1 240	1 110	---	---	---	1973
MEAN	720	784	788	805	1 030	1 250	1 290	1 250	1 090	1 030	844	887	840	MEAN

LOCATION - LAT 54 23 10 N
LONG 98 08 00 W NATURAL FLOW

METCHANAIS CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	1 300 AT 17:16 CST ON MAY 28	1 300 ON JUN 12	---	---	1971
1972	1 310 AT 12:31 CST ON MAY 30	1 290 ON MAY 31	---	---	1972
1973	1 470 AT 17:01 CST ON JUL 11 *	1 450 ON JUL 12 *	8288 ON DEC 31 *	28 700 000	1973
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		28 700 000	MEAN

MINK CREEK NEAR ETHELBERT - STATION NO. 05LJ018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	1.96	3.10	0.895	0.101	1.19	0.552	0.474	---	---	1954
1955	---	---	---	3.80	1.27	0.721	0.068	0	0.020	0.040	---	---	---	1955
1956	---	---	0.044	1.50	1.58	0.416	0.278	0.041	0.130	0.119	---	---	---	1956
1957	---	---	0.076	2.02	0.632	0.184	0.049	0.060	0.061	0.071	---	---	0.583	1957
1958	---	---	0.078	0.585	0.167	0.095	0.081	0.038	0.095	0.072	---	---	0.377	1958
1959	---	---	0.206	0.949	0.378	0.561	0.185	0.042	0.068	0.156	---	---	0.150	1959
1960	---	---	0	2.82	1.07	0.438	0.057	0.029	0.028	0.079	---	---	0.279	1960
1961	---	---	0.005	0.073	0.147	0.051	0.014	0	0.100	0.089	---	---	0.533	1961
1962	---	---	0.011	0.267	0.092	0.072	0.042	0.032	0.038	0.043	---	---	0.081	1962
1963	---	---	0.132	0.538	0.345	0.317	0.183	0.021	0.029	0.044	---	---	0.074	1963
1964	---	---	0.028	0.583	0.383	0.038	0.011	0.021	0.024	0.058	---	---	0.198	1964
1965	---	---	0	0.889	0.520	0.238	0.239	0.301	0.387	0.207	---	---	0.138	1965
1966	---	---	0.387	2.08	0.789	0.454	0.205	0.082	0.030	0.043	---	---	0.318	1966
1967	---	---	0	0.891	1.22	0.120	0.022	0.018	0.004	0.033	---	---	0.497	1967
1968	---	---	0.145	0.358	0.118	0.050	0.027	0.037	0.031	0.042	---	---	0.251	1968
1969	---	---	0.009	0.631	0.238	0.185	0.485	0.105	0.029	0.147	---	---	0.100	1969
1970	---	---	0.028	1.32	1.77	0.618	0.488	0.087	0.045	0.124	---	---	0.225	1970
1971	---	---	0.065	1.61	0.250	0.500	0.090	0.028	0.028	0.093	---	---	0.557	1971
1972	---	---	0.041	1.38	0.825	0.058	0.027	0.018	0.011	0.035	---	---	0.318	1972
1973	---	---	0.093	0.183	0.139	0.251	0.052	0.014	0.098	0.118	---	---	0.273	1973
1974	---	---	0	2.48	2.81	0.451	0.017	0.015	0.057	0.078	---	---	0.114	1974
1975	---	---	0	1.58	1.04	1.08	0.034	0.052	0.429	0.258	---	---	0.733	1975
1976	---	---	0.004	2.38	0.308	4.37	0.109	0.018	0.011	0.025	---	---	0.552	1976
1977	---	---	0.017	0.179	0.239	0.074	0.112	0.048	0.302	0.182	---	---	0.885	1977
1978	---	---	0.032	0.677	0.253	0.129	0.018	0.018	0.048	0.087	---	---	0.145	1978
1979	---	---	0.029	2.29	1.84	0.356	0.008	0.001	0.024	0.052	---	---	0.153	1979
1980	---	---	0.024	0.545	0.051	0.023	0.018	0.045	0.048	0.058	---	---	0.570	1980
1981	---	---	0.075	0.174	0.123	0.142	0.134	0.018	0.033	0.089	---	---	0.100	1981
1982	---	---	0.029	0.517	0.135	0.055	0.107	0.035	0.018	0.108	---	---	0.098	1982
1983	---	---	0	1.49	0.975	0.405	0.294	0.010	0.008	0.062	---	---	0.125	1983
1984	---	---	0.141	0.281	0.700	1.32	0.028	0	0.015	0.181	---	---	0.451	1984
MEAN	---	---	0.058	1.13	0.723	0.557	0.138	0.043	0.110	0.107	0.474	---	0.318	MEAN

LOCATION - LAT 51 25 00 N DRAINAGE AREA, 132 km^2
LONG 100 21 10 W NATURAL FLOW

REMARKS - PUBLISHED AS "MINK RIVER" PRIOR TO 1979

MINK CREEK NEAR ETHELBERT - STATION NO. 05LJ019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	---	---	---	1954
1955	---	17.8 ON APR 5	0 ON JUN 28 *	---	1955
1956	---	7.82 B ON APR 30	0 B ON MAR 1	11 900	1956
1957	---	8.61 ON APR 25	0 ON JUL 29	7 980	1957
1958	---	1.10 ON APR 14	0 B ON MAR 1	3 180	1958
1959	2.01 AT 17:00 CST ON JUN 29	1.95 ON JUN 29	0 B ON MAR 1	5 900	1959
1960	13.5 B AT 00:00 CST ON APR 13	11.8 B ON APR 12	0 B ON MAR 1	11 300	1960
1961	---	0.249A ON SEP 8	0 B ON MAR 1	1 290	1961
1962	---	1.33 B ON APR 19	0 B ON MAR 1	1 570	1962
1963	---	1.42 ON APR 10	0 B ON MAR 1	4 180	1963
1964	---	1.46 B ON APR 24	0 A ON JUL 19	2 940	1964
1965	---	1.78 B ON APR 13	0 B ON MAR 1	6 700	1965
1966	---	12.6 B ON APR 2	0.023 ON SEP 8	10 500	1966
1967	---	3.77 B ON APR 28	0 B ON MAR 1	5 310	1967
1968	---	0.850B ON MAR 28	0.011 ON AUG 14	2 120	1968
1969	---	3.31 B ON APR 15	0.0088 ON MAR 1	4 780	1969
1970	5.72 B AT 00:00 CST ON APR 28	4.45 B ON APR 28	0.012 ON AUG 25	11 800	1970
1971	5.87 B AT 01:24 CST ON APR 11	5.80 B ON APR 11	0 ON SEP 1	6 680	1971
1972	---	5.13 B ON APR 18	0 ON AUG 28	5 770	1972
1973	2.51 AT 14:12 CST ON AUG 10	0.786 ON JUN 21	0 ON AUG 26	2 410	1973
1974	---	15.7 B ON APR 19	0 B ON MAR 1	15 500	1974
1975	---	5.85 B ON APR 20	0 B ON MAR 1	11 700	1975
1976	44.2 AT 23:18 CST ON JUN 13 *	32.3 ON JUN 14 *	0.0038 ON MAR 1	18 700	1976
1977	0.868 AT 18:56 CST ON SEP 27	0.832 ON SEP 27	0.013 ON AUG 20	3 080	1977
1978	---	1.41 ON APR 21	0 ON JUL 10	3 240	1978
1979	17.3 AT 00:00 CST ON APR 24	13.9 B ON APR 23	0 ON JUL 9	12 100	1979
1980	3.30 AT 11:13 CST ON OCT 28	1.57 B ON APR 8	0 ON JUN 17	2 110	1980
1981	0.881 AT 09:25 CST ON JUL 2	0.768 ON JUL 3	0 ON AUG 16	2 030	1981
1982	---	1.73 B ON APR 15	0 B ON MAR 1	2 840	1982
1983	---	8.31 B ON APR 24	0 B ON MAR 1	8 540	1983
1984	7.88 AT 20:12 CST ON JUN 24	7.27 ON JUN 24	0 B ON MAR 1	8 950	1984
				6 890	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MINK CREEK NEAR SIFTON - STATION NO. 05LJ048

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	1.08	0.021	0	0	0.001	0	0	---	---	0.135	1980
1981	---	---	0.052	0.042	0.024	0.548	0.217	0.004	0.001	0.002	---	---	0.110	1981
1982	---	---	0.074	0.812	0.104	0.010	0.082	0.008	0.001	0.050	---	---	0.137	1982
MEAN	---	---	0.042	0.645	0.050	0.186	0.080	0.004	0.001	0.017	---	---	0.127	MEAN

LOCATION - LAT 51 25 55 N LONG 100 01 00 W DRAINAGE AREA, 289 km^2 NATURAL FLOW

MINK CREEK NEAR SIFTON - STATION NO. 05LJ048

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	4.10A ON APR 10 *	0B ON MAR 1 *	2 880	1980
1981	4.61 AT 07:30 CST ON JUN 24 *	3.94 ON JUN 24	0 ON SEP 8	2 330	1981
1982	---	2.68B ON APR 15	0B ON MAR 1	2 810	1982
				2 700	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MINNEWASTA CREEK NEAR BEULAH - STATION NO. 05ME008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0.020	0.148	0	0	---	---	---	---	---	---	0.041	1978
1979	---	---	0	0.861	1.15	0.234	---	---	---	---	---	---	0.592	1979
1980	---	---	0	0.084	0	0	---	---	---	---	---	---	0.021	1980
1981	---	0.007	0	0	0	0	---	---	---	---	---	---	0	1981
1982	---	---	0.017	0.387	0	0	---	---	---	---	---	---	0.100	1982
1983	---	---	0	0.851	0.280	0.028	---	---	---	---	---	---	0.240	1983
1984	---	---	0	0	0	0	---	---	---	---	---	---	0	1984
MEAN	---	0.007	0.005	0.281	0.180	0.033	0	0	0	0	---	---	0.124	MEAN

LOCATION - LAT 50 15 08 N LONG 101 01 14 W DRAINAGE AREA, 350 km^2 NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.025 AND 0 m^3/s OCCURRED IN FEBRUARY

MINNEWASTA CREEK NEAR BEULAH - STATION NO. 05ME008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	0 B ON MAR 1	0B ON MAR 1 *	0	1977
1978	0.7028 AT 17:34 CST ON APR 10	0.467B ON APR 10	0B ON MAR 1	431	1978
1979	5.26 AT 07:35 CST ON APR 22 *	5.84 ON APR 22 *	0B ON MAR 1	6 240	1979
1980	0.437B AT 23:45 CST ON APR 8	0.352B ON APR 8	0B ON MAR 1	218	1980
1981	---	0 B ON MAR 1	0B ON MAR 1	0	1981
1982	---	1.28 ON APR 15	0B ON MAR 1	1 050	1982
1983	2.84 AT 01:00 CST ON APR 22	2.78 ON APR 22	0B ON MAR 1	2 540	1983
1984	---	0.001A ON MAR 28	0B ON MAR 1	0.09	1984
				1 310	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOOSE RIVER NEAR MOOSE LAKE - STATION NO. 05KK007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	---	-10.1	-40.2	-5.84	22.0	32.8	46.9	---	1971
1972	44.5	52.7	54.7	53.6	-8.39	-1.88	-45.2	-44.7	-7.22	23.0	36.8	---	---	1972
1973	50.2	57.3	58.3	58.0	12.4	-41.4	-38.8	4.04	-15.0	-29.8	17.4	37.3	14.0	1973
MEAN	47.4	55.0	56.5	56.3	2.01	-21.5	-31.4	-27.0	-9.35	5.13	29.0	41.1	14.0	MEAN

LOCATION - LAT 53 38 00 N
LONG 100 19 00 W
REGULATED SINCE 1984

MOOSE RIVER NEAR MOOSE LAKE - STATION NO. 05KK007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	83.7 ON APR 5 *	-55.5A ON JUL 2 *	443 000	1973
				443 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MORRIS RIVER AT ROSENORT - STATION NO. 05OF007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1922	---	---	---	---	3.98	---	---	---	---	---	---	---	---	1922
1923	---	---	---	---	8.15	---	---	---	---	---	---	---	---	1923
1925	---	---	---	---	1.26	---	---	---	---	---	---	---	---	1925
1963	---	---	0.005	3.24	1.98	13.1	1.81	0.588	0	0	---	---	2.63	1963
1964	---	---	0	8.38	1.05	1.44	0.213	0.155	2.09	0	---	---	1.83	1964
1965	---	---	0	33.3	3.63	1.47	0	0	0	0	---	---	4.71	1965
1966	---	---	0.411	3.08	1.94	0.519	2.01	10.7	4.53	0.827	---	---	2.98	1966
MEAN	---	---	0.104	12.0	3.14	4.13	0.958	2.86	1.88	0.157	---	---	2.98	MEAN

LOCATION - LAT 49 27 30 N
LONG 97 26 15 W
DRAINAGE AREA, 2 230 km^2
NATURAL FLOW

MORRIS RIVER AT ROSENORT - STATION NO. 05OF002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1922	---	---	---	---	1922
1923	---	---	---	---	1923
1925	---	---	---	---	1925
1963	---	59.9 ON JUN 7	0B ON MAR 1 *	53 500	1963
1964	---	41.9B ON APR 18	0B ON MAR 1	34 900	1964
1965	---	122 ON APR 18 *	0B ON MAR 1	99 800	1965
1966	---	50.1E ON AUG 28	0B ON MAR 1	63 100	1966
				82 800	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MORRIS RIVER NEAR ROSENORT - STATION NO. 05OF020

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	32.0	8.12	2.95	12.8	1.83	0.480	0.107	---	---	7.20	1969
1970	---	---	---	---	---	---	---	---	---	---	---	---	---	1970
1971	---	---	---	---	---	---	---	---	---	---	---	---	4.05	1971
1972	---	---	0	40.7	38.5	2.38	---	---	---	---	---	---	3.44	1972
1973	---	---	0	25.9	2.38	1.64	1.28	0.473	0.312	0.845	---	---	0.883	1973
1974	---	---	3.18	21.8	2.37	0.387	0.043	0.085	0.048	0.238	---	---	12.5	1974
1975	---	---	1.88	1.21	0.834	1.11	0.214	0.159	0.034	0.088	---	---	---	1975
1976	---	---	0.051	87.9	39.6	2.84	0.340	0.040	0.050	0.080	---	---	1.88	1976
1977	---	---	0.133	8.18	3.84	2.81	1.81	0.233	0.239	0.213	---	---	3.12	1977
1978	---	---	0.084	23.4	1.23	0.685	0.017	0.001	0.001	0.013	---	---	0.528	1978
1979	---	---	0.002	1.41	1.88	0.142	0.184	0.020	0.493	0.430	---	---	3.87	1979
1980	---	---	0.048	23.8	3.27	1.18	2.52	1.07	0.418	0.188	---	---	---	1980
1981	---	---	0	---	---	3.19	0.589	0.115	0.353	0.091	---	---	0.842	1981
1982	---	---	0.003	8.41	0.387	0.017	0.001	0	0.022	0.042	---	---	0.583	1982
1983	---	---	1.48	0.848	0.280	0.338	0.504	0.324	0.810	0.184	---	---	0.743	1983
1984	---	---	0.233	4.80	0.608	0.304	0.054	0.008	0	0.025	---	---	2.98	1984
MEAN	---	---	0.518	17.8	8.98	1.34	1.38	0.280	0.216	0.181	---	---	3.08	MEAN

LOCATION - LAT 49 29 22 N
LONG 97 38 51 W

DRAINAGE AREA, 2 200 km²
NATURAL FLOW

MORRIS RIVER NEAR ROSENORT - STATION NO. 05OF020

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1969	---	100 ON APR 15	0 B ON MAR 1 *	152 000	1969
1970				---	1970
1971	---	134 ON MAY 1	0 B ON MAR 1	85 700	1971
1972	---	92.6 ON APR 12	0 B ON MAR 1	72 600	1972
1973	---	71.8 ON APR 17	0 B ON MAR 1	14 000	1973
1974	73.3 AT 08:10 CST ON APR 17	8.24 ON JUN 21	0 B ON MAR 1	284 000	1974
1975	---	197 ON APR 24 *	0.001 ON AUG 20		1975
1976	170 AT 22:07 CST ON APR 23 *		0.001 ON AUG 2	38 700	1976
1977		22.8 ON APR 30	0 ON JUL 10	88 000	1977
1978	26.8 AT 22:01 CST ON APR 29	81.0 ON APR 10	0 B ON MAR 1	11 200	1978
1979	82.1 AT 08:24 CST ON APR 10	7.798 ON APR 10	0 B ON MAR 1	84 100	1979
1980	---	48.8 B ON APR 13	0 B ON MAR 1	---	1980
1981	51.88 AT 01:08 CST ON APR 14	---		17 800	1981
1982	---	15.8 B ON APR 10	0 B ON MAR 1	11 900	1982
1983	18.38 AT 18:57 CST ON APR 10	3.708 ON MAR 28	0 A ON SEP 2	18 700	1983
1984	---	15.8 ON APR 15	0 B ON MAR 1	83 000	1984
	16.4 AT 21:20 CST ON APR 15	51.1 B ON APR 7	0 ON AUG 17	8 340	
	51.88 AT 09:08 CST ON APR 7	7.422 ON JUN 23	0 B ON MAR 1		
	---			84 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOSSY RIVER ABOVE FORK RIVER - STATION NO. 05LJ014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO NOV IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	84.3	61.6	58.2	50.4	40.8	31.4	28.0	---	---	1948
1949	---	---	---	18.8	15.8	12.2	8.44	2.74	1.33	1.18	1.11	---	7.18	1949
1950	---	---	---	12.8	11.8	28.7	30.3	28.0	18.9	19.8	17.8	---	20.8	1950
1951	---	---	---	17.7	27.1	20.5	8.78	4.84	4.14	4.89	4.57	---	11.8	1951
1952	---	---	---	28.6	28.3	11.8	5.20	2.87	2.08	1.70	1.30	---	9.84	1952
1953	---	---	8.35	16.9	28.2	89.8	88.2	84.1	41.8	34.8	31.1	---	43.3	1953
1954	---	---	15.4	21.1	28.6	84.8	83.4	38.6	33.6	34.8	29.2	---	38.8	1954
1955	---	---	24.2	38.0	48.8	52.2	48.8	35.3	27.2	21.0	---	---	---	1955
1956	---	---	12.4	18.8R	38.6	39.0	48.8	38.0	30.4	24.1	---	---	---	1956
MEAN	---	---	14.8	21.0R	32.3	38.9	38.8	27.8	22.2	18.2	15.9	---	21.4	MEAN

R - REVISED SINCE JAN 1980

LOCATION - LAT 51 30 13 N
LONG 99 59 45 W

DRAINAGE AREA, 9 040 km²
REGULATED

MOSSY RIVER ABOVE FORK RIVER - STATION NO. 05LJ014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO NOV FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1948	---	89.68 ON APR 28	---	---	1948
1949	---	32.4 ON APR 4	0.383 ON OCT 30 *	181 000	1949
1950	---	90.4 ON OCT 33	4.50 ON MAY 8	435 000	1950
1951	---	38.2 ON MAY 1	2.55 ON SEP 13	243 000	1951
1952	---	31.18 ON APR 8	0.850 ON NOV 8	201 000	1952
1953	---	105 E ON JUN 8 *	12.5 ON APR 2	913 000	1953
1954	---	87.1 ON JUN 18	13.8 ON APR 10	788 000	1954
1955	---	81.7 ON JUN 24	---	---	1955
1956	---	51.6 ON JUL 15	---	---	1956
				452 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOSSY RIVER AT LACY'S FARM BELOW FISHING RIVER - STATION NO. 05LJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	24.4	23.2	23.1	30.8	45.0	40.5	31.3	---	1912
1913	---	---	---	---	---	---	---	34.8	28.1	20.1	18.4	18.8	---	1913
1914	18.8	18.1	14.5	13.9	19.7	20.2	14.8	---	---	---	---	---	---	1914
MEAN	18.8	18.1	14.5	13.9	19.7	22.3	19.0	29.0	29.5	32.8	29.5	25.1	---	MEAN

LOCATION - LAT 51 27 40 N DRAINAGE AREA, 8 890 km²
LONG 99 59 20 W NATURAL FLOW

MOSSY RIVER AT WILSON'S FARM BELOW FORK RIVER - STATION NO. 05LJ002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	---	14.0 R	9.85	7.78	6.78	6.23	4.81	---	1914
1915	4.25	4.53	5.50	7.35	5.07	5.00	5.83	3.58	2.80	3.08	2.26	1.84	4.51	1915
1916	0.490	0.418	0.387	2.65	6.59	27.1	19.6	12.1	8.42	9.57	8.47	3.66	8.22	1916
1917	6.46	8.16	8.43	12.5	17.4	15.0	20.0	11.8	8.36	7.22	7.70	4.89	10.6	1917
1918	3.77	3.98	5.88	10.2	9.57	10.5	7.72	5.77	5.34	5.05	4.27	2.35	5.55	1918
1919	1.77	1.48	2.86	6.65	7.48	6.57	5.63	4.03	3.26	3.21	3.62	1.68	4.15	1919
1920	0.908	0.941	1.01	13.5	27.2 R	18.5	14.2	8.56	6.36	5.58	5.72	5.59	9.13R	1920
1921	5.65	6.71	7.02	12.3	16.6	33.1	18.4	15.8	22.7	19.3	22.6	16.2	16.6	1921
1922	14.2	12.2	10.3	38.0	80.5	36.3	30.5	29.0	22.5	17.6	17.9	19.6	24.8	1922
1923	18.2	18.0	19.7	---	---	---	---	---	---	---	---	---	---	1923
MEAN	6.18	6.27	7.47	13.3	17.6 R	19.1	15.1 R	11.5	9.85	8.80	8.53	6.99	10.6	MEAN

LOCATION - LAT 51 31 40 N DRAINAGE AREA, 9 510 km²
LONG 99 58 30 W NATURAL FLOW

R - REVISED SINCE JAN 1980

MOSSY RIVER AT WILSON'S FARM BELOW FORK RIVER - STATION NO. 05LJ002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	21.4 ON MAR 27	0.878 ON OCT 28	142 000	1915
1916	---	65.2 ON JUN 27	0.3888 ON FEB 24 *	280 000	1916
1917	---	34.3 ON JUN 30	2.29 ON OCT 11	338 000	1917
1918	---	25.6 ON MAR 28	1.78 B ON DEC 31	207 000	1918
1919	---	14.78 ON APR 5	1.06 B ON DEC 30	131 000	1919
1920	---	52.48 ON APR 25	0.8218 ON JAN 20	289 000R	1920
1921	---	86.0 ON JUN 20 *	2.01 B ON FEB 18	531 000	1921
1922	---	84.6 ON MAY 15	9.97 B ON MAR 23	788 000	1922
1923	---	21.08 ON MAR 31	14.2 B ON JAN 18	---	1923
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980		326 000R	MEAN

MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE - STATION NO. 05LJ025

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	---	---	---	---	---	---	---	---	---	33.0	19.3	15.8	---	1986
1987	16.0	15.4	13.6	19.0	31.4	28.8	24.1	10.5	4.08	3.20	2.18	2.39	14.4	1987
1988	2.21	1.84	2.26	4.59	2.89	1.81	1.78	1.18	0.883	0.834	0.824	0.471	1.77	1988
1989	0.344	0.312	0.887	1.83	1.81	1.28	1.78	2.28	1.84	1.83	1.80	1.80	1.48	1989
1990	1.14	1.38	1.88	15.8	28.4	29.3	20.3	14.0	10.1	8.83	8.89	8.06	11.8	1990
1991	8.43	4.72	4.81	6.57	3.02	1.28	0.886	0.123	0.020	---	---	---	---	1991
1992	---	---	---	---	---	---	---	---	---	0.072	0.038	0.033	---	1992
1993	0.018	0	0.065	0.885	0.938	1.31	0.893	0.630	0.886	0.897	0.482	0.514	0.581	1993
1994	0.881	0.633	0.881	0.845	0.250	0.009	0.088	0.037	0.121	---	---	---	---	1994
1995	---	---	---	---	---	---	---	---	---	0.078	0.128	0.188	---	1995
1996	0.188	0.180	1.84	23.9	35.5	33.4	28.7	24.9	19.8	14.8	4.02	0.875	15.8	1996
1997	0.783	0.888	8.70	18.5	34.8	32.4	26.0	18.3	2.85	1.45	0.809	0.583	11.6	1997
1998	0.843	0.443	0.868	1.23	1.84	1.71	1.18	0.869	1.18	0.700	0.788	0.908	0.983	1998
1999	1.38	1.11	1.28	8.51	12.9	13.2	21.5	22.3	17.8	14.8	12.5	2.40	10.7	1999
1970	0.877	0.852	1.18	12.2	38.5	42.9	36.4	29.1	23.7	18.4	18.8	18.8	20.2	1970
1971	18.3	18.4	13.7	18.8	32.1	24.5	21.8	12.2	1.80	0.833	2.08	8.08	13.1	1971
1972	5.71	4.62	4.43	18.5	38.1	31.3	21.9	10.8	1.84	0.182	0.287	0.977	11.2	1972
1973	0.878	1.70	1.33	1.08	0.881	0.227	0.247	0.242	0.288	0.280	0.808	1.47	0.783	1973
1974	2.05	2.17	2.38	28.9	82.8	88.8	64.2	41.1	33.1	28.4	23.8	18.9	30.0	1974
1975	18.3	18.1	16.1	18.4	30.3	33.5	24.4	15.4	22.8	42.0	38.3	33.8	26.4	1975
1976	27.7	23.8	20.8	36.4	47.2	47.4	80.7	38.7	28.5	20.1	15.3	8.18	29.8	1976
1977	8.13	4.87	2.08	1.88	10.7	1.11	7.88	0.807	3.27	18.8	15.2	14.8	7.03	1977
1978	13.8	12.2	10.8	13.7	17.8	18.5	10.1	0.385	0.307	0.830	8.33	0.805	8.48	1978
1979	0.818	0.848	2.23	15.8	84.8	87.4	48.8	33.7	28.1	21.8	18.8	17.0	24.7	1979
1980	15.8	13.4	12.3	13.7	3.08	0.448	0.238	0.288	0.338	0.273	2.17	8.08	8.81	1980
1981	7.83	7.38	2.13	1.14	0.123	0.238	0.183	0.188	0.180	0.182	0.752	8.14	2.18	1981
1982	6.00	7.28	3.18	3.78	15.2	4.10	2.30	0.848	0.308	0.273	0.388	4.38	4.17	1982
1983	7.78	8.84	8.72	13.8	28.3	30.7	32.2	26.8	19.1	18.8	14.1	11.8	18.1	1983
1984	8.40	8.28	1.23	0.128	10.0	14.1	8.34	0.081	0.087	2.00	8.82	8.88	8.81	1984
MEAN	8.83	8.78	8.13	11.2	20.4	19.8	17.0	11.8	8.34	8.88	7.98	7.18	11.8	MEAN

LOCATION - LAT 51 27 00 N DRAINAGE AREA, 8 700 km²
LONG 99 58 00 W REGULATED

MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE - STATION NO. 05LJ025

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	---	---	---	1956
1957	37.1 AT 12:10 CST ON MAY 19	33.7 ON MAY 19	1.76 ON NOV 7	454 000	1957
1958	9.65 AT 12:40 CST ON APR 16	8.21 ON APR 15	0.3118 ON DEC 30	55 800	1958
1959	17.7 AT 15:50 CST ON AUG 1	4.13 ON MAY 5	0.2278 ON FEB 2	46 000	1959
1960	38.8 AT 07:30 CST ON JUN 17	34.5 ON JUN 7	0.9818 ON JAN 14	372 000	1960
1961	---	7.56 A ON JAN 8	---	---	1961
1962	---	---	---	---	1962
1963	3.96 AT 08:10 CST ON JUN 22	2.30 ON JUN 21	0 E ON JAN 16 *	17 400	1963
1964	---	0.8978 ON JAN 21	0 E ON JUN 21	---	1964
1965	---	---	---	---	1965
1966	38.8 AT 03:20 CST ON MAY 21	37.7 ON MAY 21	0.1588 ON JAN 10	498 000	1966
1967	38.8 AT 23:00 CST ON MAY 21	37.8 ON MAY 21	0.122 ON OCT 24	371 000	1967
1968	---	3.82 ON MAY 6	0.133 ON MAY 15	31 100	1968
1969	---	27.3 ON AUG 5	0.3348 ON MAR 26	337 000	1969
1970	---	48.0 ON MAY 24	0.5018 ON MAR 11	836 000	1970
1971	---	29.7 ON JUN 14	0.012 ON OCT 28	411 000	1971
1972	---	41.8 ON JUN 1	0.127 ON OCT 17	355 000	1972
1973	---	2.80 B ON FEB 17	0.085 ON OCT 7	26 000	1973
1974	---	79.8 ON MAY 27 *	1.26 B ON JAN 1	985 000	1974
1975	---	48.7 ON OCT 5	3.17 ON AUG 25	801 000	1975
1976	---	61.4 ON JUN 23	3.77 ON DEC 19	948 000	1976
1977	---	22.5 ON OCT 22	0.218 ON AUG 10	221 000	1977
1978	---	26.3 ON JUN 9	0.113 ON JUL 29	268 000	1978
1979	69.2 AT 18:11 CST ON JUN 5 *	54.7 ON JUN 5	0.8578 ON JAN 10	780 000	1979
1980	17.8 AT 08:31 CST ON JAN 12	17.5 ON JAN 12	0.139 ON JUN 26	184 000	1980
1981	11.2 AT 21:55 CST ON DEC 17	10.8 ON DEC 18	0.042E ON OCT 17	88 100	1981
1982	20.4 AT 13:15 CST ON MAY 23	17.8 ON MAY 23	0.018E ON OCT 21	131 000	1982
1983	38.2 AT 08:46 CST ON JUL 9	34.9 ON JUL 14	8.52 B ON FEB 27	572 000	1983
1984	23.1 AT 23:58 CST ON JUN 24	18.8 ON MAY 15	0.003 ON AUG 30	174 000	1984
				363 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOWBRAY CREEK NEAR MOWBRAY - STATION NO. 05OB021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	1.76	0.072	0.083	0.003	0	0	0	---	---	0.336	1962
1963	---	---	0.010	0.030	0.002	0.108	0.040	0.008	0.001	0	---	---	0.025	1963
1964	---	---	0	0.289	0.026	0.018	0.006	0	0	0	---	---	0.038	1964
1965	---	---	0	1.41	0.332	0.083	0.001	0	0	0	---	---	0.221	1965
1966	---	---	1.41	2.86	1.33	0.148	0.057	0.038	0.010	0	---	---	0.690	1966
1967	---	---	0.082	2.93	1.70	0.087	0.002	0	0	0	---	---	0.590	1967
1968	---	---	0.071	0.178	0.001	0	0	0	0	0	---	---	0.031	1968
1969	---	---	0	3.66	0.182	0.389	0.150	0.034	0	0	---	---	0.540	1969
1970	---	---	0	3.25	0.908	0.784	0.806	0.044	0.008	0.008	---	---	0.893	1970
1971	---	---	0	5.84	0.383	0.082	0.033	0	0	0	---	---	0.776	1971
1972	---	---	0.618	1.14	0.140	0.018	0	0	0	0	---	---	0.283	1972
1973	---	---	0.300	0.030	0	0	0	0	0	0	---	---	0.042	1973
1974	---	---	0	5.88	4.51	0.484	0.035	0	0	0	---	---	1.35	1974
1975	---	---	0	0.527	0.293	0.005	0.002	0	0	0	---	---	0.102	1975
1976	---	---	0	3.42	0.061	0.024	0.008	0.004	0	0	---	---	0.431	1976
1977	---	---	0.001	0.078	0.002	0	0	0	0.101	0	---	---	0.022	1977
1978	---	---	0.008	3.03	0.204	0.031	0.029	0.002	0	0	---	---	0.406	1978
1979	---	---	0	5.04	2.28	0.024	0.250	0.113	0.228	0.139	---	---	0.888	1979
1980	---	---	0.004	0.419	0.222	0.088	0.032	0.047	0.068	0.148	---	---	0.128	1980
1981	---	0.181	0.388	0.116	0.089	0.031	0.012	0.028	0.006	0.009	---	---	0.078	1981
1982	---	---	0.032	0.848	0.168	0.142	0.112	0.064	0	0.072	---	---	0.182	1982
1983	---	---	0.802	1.02	0.084	0.027	0.011	0.005	0	0	---	---	0.204	1983
1984	---	---	0.134	0.107	0.047	0.268	0.001	0	0	0	---	---	0.067	1984
MEAN	---	0.181	0.181	1.80	0.595	0.123	0.060	0.014	0.018	0.018	---	---	0.383	MEAN

LOCATION - LAT 49 00 00 N
LONG 98 27 15 W
DRAINAGE AREA, 282 km^2
NATURAL FLOW
INTERNATIONAL GAUGING STATION

MOWBRAY CREEK NEAR MOWBRAY - STATION NO. 05DB021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1982	---	8.84 ON APR 20	08 ON MAR 1 *	4 880	1982
1983	---	0.281 ON JUN 25	08 ON MAR 1	528	1983
1984	---	0.848 ON APR 16	08 ON MAR 1	816	1984
1985	---	5.72 B ON APR 13	08 ON MAR 1	4 880	1985
1986	---	8.64 B ON MAR 29	08 ON MAR 1	14 800	1986
1987	---	11.1 ON APR 24	08 ON MAR 1	12 500	1987
1988	---	0.498 ON APR 9	08 ON MAR 1	849	1988
1989	---	10.7 B ON APR 15	08 ON MAR 1	11 400	1989
1970	---	10.5 ON APR 27	08 ON MAR 1	14 700	1970
1971	---	17.8 ON APR 12	08 ON MAR 1	16 400	1971
1972	---	3.91 B ON MAR 21	08 ON MAR 1	5 580	1972
1973	---	1.89 B ON MAR 16	08 ON MAR 1	881	1973
1974	19.0 AT 12:13 CST ON APR 21	18.8 ON APR 21	08 ON MAR 1	28 500	1974
1975	---	1.68 B ON APR 15	08 ON MAR 1	2 160	1975
1976	12.9 AT 11:13 CST ON APR 7	12.7 ON APR 7	08 ON MAR 1	9 120	1976
1977	0.824 AT 13:00 CST ON SEP 8	0.5898 ON APR 5	08 ON MAR 1	473	1977
1978	---	10.7 B ON APR 11	08 ON MAR 1	8 570	1978
1979	22.0 AT 00:00 CST ON APR 25 *	20.0 ON APR 25 *	08 ON MAR 1	21 200	1979
1980	8.77 AT 00:26 CST ON MAY 29	4.24 ON MAY 29	08 ON MAR 1	2 700	1980
1981	3.57 AT 20:22 CST ON MAY 22	0.7338 ON MAR 20	0A ON JUL 8	1 680	1981
1982	9.90 B AT 16:26 CST ON APR 14	7.12 B ON APR 14	08 ON MAR 1	3 860	1982
1983	---	4.39 B ON APR 7	08 ON MAR 1	4 320	1983
1984	1.82 AT 20:56 CST ON JUN 10	1.78 ON JUN 11	08 ON MAR 1	420	1984
				7 480	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NEEPAWA CREEK NEAR NEEPAWA - STATION NO. 05LL008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.782	0.308	0.081	0.024	0	0	0.003	0.060	---	---	0.155	1959
1960	---	---	0	5.31	0.857	0.214	0.014	0	0	0.028	---	---	0.785	1960
1961	---	---	0.010	0.283	0.159	0.008	0	0	0	---	---	---	0.057	1961
1962	---	---	0	1.89	0.158	0.037	0.137	0.141	0.054	0.081	---	---	0.318	1962
1963	---	---	1.17	0.993	0.180	0.890	0.636	0.010	0.009	0.008	---	---	0.488	1963
1964	---	---	0	0.851	0.304	0.035	0.011	0.003	0.007	0.026	---	---	0.165	1964
1965	---	---	0	4.31	0.599	0.329	0.803	0.294	0.535	0.130	---	---	0.884	1965
1966	---	---	0.334	1.94	0.587	0.241	0.108	0.025	0.001	0.026	---	---	0.417	1966
1967	---	---	0.014	3.86	0.424	0.057	0.010	0	0	0.011	---	---	0.537	1967
1968	---	---	0.857	0.405	0.125	0.044	0.038	0.038	0.048	0.043	---	---	0.200	1968
1969	---	---	0.017	5.31	0.379	0.486	1.70	0.186	0.049	0.082	---	---	1.02	1969
1970	---	---	0.025	4.82	4.30	0.231	0.348	0.219	0.032	0.076	---	---	1.26	1970
1971	---	---	0	1.92	0.258	2.82	0.906	0.043	0.031	0.160	---	---	0.733	1971
1972	---	---	0.101	3.51	0.880	0.077	0.033	0.015	0.017	0.048	---	---	0.852	1972
1973	---	---	0.233	0.150	0.116	0.042	0.008	0.006	0.173	0.058	---	---	0.089	1973
1974	---	---	0.054	3.95	2.38	0.176	0.015	0.002	0.018	0.032	---	---	0.821	1974
1975	---	---	0.026	2.77	0.804	0.211	0.050	1.08	1.19	0.229	---	---	0.785	1975
1976	---	---	0.083	4.58	0.249	0.283	0.053	0.012	0.008	0.039	---	---	0.852	1976
1977	---	---	0.032	0.175	0.105	0.082	0.091	0.059	0.117	0.075	---	---	0.089	1977
1978	---	---	0.030	1.82	0.581	0.111	0.011	0.005	0.038	0.045	---	---	0.300	1978
1979	---	---	0.015	5.28	3.22	0.269	0.027	0.004	0.017	0.041	---	---	1.10	1979
1980	---	---	0	0.820	0.051	0.012	0.007	0.185	0.180	0.177	---	---	0.148	1980
1981	---	0.307	0.672	0.457	0.052	0.091	0.003	0.048	0.085	0.089	---	---	0.189	1981
1982	---	---	0.118	1.98	0.135	0.086	0.072	0.018	0.019	0.075	---	---	0.308	1982
1983	---	---	0.014	3.47	0.402	0.181	0.199	0	0.005	0.150	---	---	0.544	1983
1984	---	---	0.203	0.324	0.178	0.082	0.008	0	0.001	0.058	---	---	0.108	1984
MEAN	---	0.307	0.183	2.38	0.666	0.285	0.203	0.091	0.100	0.071	---	---	0.487	MEAN

LOCATION - LAT 50 13 58 N
LONG 99 34 00 W
DRAINAGE AREA, 185 km^2
NATURAL FLOW

NEEPAWA CREEK NEAR NEEPAWA - STATION NO. 05LL009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	5.12 B ON MAR 26	0 B ON MAR 1 *	3 280	1959
1960	---	16.5 ON APR 16	0 B ON MAR 1	18 200	1960
1961	---	0.963 ON APR 21	0 B ON MAR 1	1 210	1961
1962	---	12.5 ON APR 21	0 B ON MAR 1	6 740	1962
1963	---	8.38 ON MAR 29	0 B ON MAR 1	10 300	1963
1964	---	2.15 ON APR 14	0 B ON MAR 1	3 490	1964
1965	---	20.8 ON APR 13	0 B ON MAR 1	18 300	1965
1966	---	10.8 ON APR 2	0 B ON MAR 1	8 830	1966
1967	---	22.9 ON APR 15	0 ON JUL 13	11 400	1967
1968	---	5.10 B ON MAR 26	0 ON JUL 16	4 330	1968
1969	---	34.0 ON APR 13	0.008 ON JUN 23	21 500	1969
1970	---	25.0 ON APR 29	0 ON AUG 13	28 800	1970
1971	---	7.82 ON JUN 10	0 B ON MAR 1	15 500	1971
1972	---	11.0 B ON APR 17	0 B ON MAR 1	11 700	1972
1973	---	2.92 ON SEP 4	0 ON JUL 18	2 100	1973
1974	---	14.6 ON APR 21	0 ON JUL 25	17 300	1974
1975	---	18.9 ON APR 29	0.023E ON JUL 24	15 600	1975
1976	13.7 AT 03:21 CST ON APR 10	12.7 ON APR 8	0 ON JUL 27	13 800	1976
1977	---	0.416 ON SEP 25	0 B ON MAR 1	1 890	1977
1978	10.5 AT 11:29 CST ON MAY 25	4.84 B ON APR 18	0 ON AUG 9	5 350	1978
1979	48.1 AT 16:30 CST ON APR 21 *	35.0 ON APR 21 *	0 ON AUG 19	23 300	1979
1980	5.06 AT 17:39 CST ON APR 4	2.22 B ON APR 4	0 B ON MAR 1	3 130	1980
1981	3.17 AT 03:08 CST ON AUG 31	1.22 ON AUG 31	0 ON JUL 6	4 010	1981
1982	8.428 AT 21:35 CST ON APR 15	7.78 B ON APR 15	0 B ON MAR 1	6 470	1982
1983	---	16.9 B ON APR 21	0 B ON APR 6	11 500	1983
1984	2.75 AT 17:42 CST ON MAY 8	1.13 B ON MAR 28	0 B ON MAR 9	2 240	1984
				10 300	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NELSON RIVER (EAST CHANNEL) BELOW SEA RIVER FALLS - STATION NO. 05UB005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	---	---	381	307	177	---	1967
1968	174	175	185	220	330	380	385	383	408	363	284	280	305	1968
1969	281	300	312	422	595	597	592	577	575	580	521	412	481	1969
1970	398	398	393	481	675	720	761	682	554	483	457	357	531	1970
1971	385	372	371	469	668	659	578	525	448	400	293	385	455	1971
1972	319	316	320	484	673	648	563	487	402	348	297	202	423	1972
1973	197	232	275	355	387	388	458	436	386	358	231	187	321	1973
1974	---	177	284	474	699	878	883	814	708	---	---	---	---	1974
1975	382	401	382	445	678	702	718	711	654	531	404	274	523	1975
1976	248	241	250	382	420	426	424	461	358	218	92.4	86.7	298	1976
1977	84.1	83.8	84.4	115	183	---	180	178	185	228	165	125	---	1977
1978	114	121	129	171	448	503	551	548	541	495	387	236	355	1978
1979	177	182	222	282	460	587	569	549	532	447	282	207	375	1979
1980	213	214	216	324	472	477	508	488	478	400	304 R	208 R	358R	1980
1981	178	173	188	240	315	349	424	430	386	330	211 R	151 R	282R	1981
1982	133	126	123	171	385	483	552	583	483	375	289	212	326	1982
1983	197	191	185	208	441	514	558	547	473	420	323	210	357	1983
1984	204	189	193	280	393	447	482	462	342	313	181	147	304	1984
MEAN	228	230	242	324	481	547	540	521	483	392	303 R	221 R	380	MEAN

R - REVISED SINCE JAN 1980

LOCATION - LAT 54 14 39 N
LONG 97 35 27 W

REGULATED SINCE 1973

NELSON RIVER (EAST CHANNEL) BELOW SEA RIVER FALLS - STATION NO. 05UB005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	---	---	---	1967
1968	---	487 ON NOV 13	158 B ON MAR 25	9 640 000	1968
1969	880 AT 07:14 CST ON MAY 28	668 ON MAY 26	273 B ON JAN 1	15 200 000	1969
1970	827 AT 15:03 CST ON AUG 9 *	807 ON JUL 22 *	328 ON OCT 3	18 800 000	1970
1971	759 AT 01:00 CST ON MAY 28	725 ON MAY 28	185 ON NOV 7	14 400 000	1971
1972	733 AT 12:07 CST ON MAY 9	726 ON MAY 15	183 B ON DEC 30	13 400 000	1972
1973	513 AT 12:10 CST ON JUL 12	498 ON JUL 12	187 B ON DEC 30	10 100 000	1973
1974	---	---	---	---	1974
1975	---	780 ON AUG 7	254 B ON DEC 30	15 500 000	1975
1976	827 AT 14:00 CST ON AUG 16	513 ON AUG 16	85.08 ON DEC 31 *	9 450 000	1976
1977	---	---	---	---	1977
1978	643 AT 15:20 CST ON SEP 23	633 ON SEP 23	117 B ON JAN 15	11 200 000	1978
1979	887 AT 19:38 CST ON JUN 25	848 ON JUL 8	158 B ON JAN 21	11 800 000	1979
1980	598 AT 09:40 CST ON AUG 29	570 ON AUG 29	182 B ON DEC 31	11 300 000R	1980
1981	520 AT 14:10 CST ON SEP 23	499 ON SEP 23	140 BE ON DEC 30	8 680 000R	1981
1982	783 AT 19:30 CST ON AUG 6	735 ON AUG 9	122 B ON MAR 15	10 300 000	1982
1983	---	821 ON AUG 3	178 B ON APR 11	11 200 000	1983
1984	587 AT 17:40 CST ON JUN 30	545 ON JUN 30	143 B ON DEC 28	8 610 000	1984
				12 000 000R	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

NELSON RIVER (WEST CHANNEL) AT JENPEG - STATION NO. 05UB005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	2 880	2 700	2 550	2 340	---	---	---	1967
1968	---	---	---	---	---	2 350	2 400	2 380	2 470	---	---	---	---	1968
1969	---	---	---	---	2 850	2 810	2 630	2 770	2 770	---	---	---	---	1969
1972	1 810	1 770	1 850	2 050	2 750	2 980	2 760	2 800	2 340	2 180	1 910	1 700	2 230	1972
1973	1 480	1 480	1 480	1 670	---	---	---	---	---	---	---	---	---	1973
1974	2 080	1 830	1 740	1 880	3 080	2 800	2 040	1 400	1 330	2 000	1 780	1 810	1 950	1974
1977	1 410	1 330	1 300	833	884	826	780	767	784	1 180	1 880	1 610	1 110	1977
1978	1 580	1 480	1 410	1 380	858	813	582	715	1 070	2 120	2 270	2 310	1 380	1978
1979	2 080	1 870	1 830	1 980	2 890	3 480	3 440	1 130	1 050	1 940	2 430	1 880	2 190	1979
1980	1 790	1 780	1 870	1 350	817	886	488	828	891	1 890	1 870	2 050	1 270	1980
1981	1 830	1 710	1 080	588	489	492	858	852	1 070	1 820	2 190	1 800	1 210	1981
1982	1 680	1 520	1 410	1 300	1 020	752	850	1 110	1 880	2 220	2 140	2 030	1 490	1982
1983	1 870	1 820	1 900	1 830	1 270	932	1 110	1 150	1 220	1 780	2 100	1 790	1 580	1983
1984	1 760	1 820	1 800	1 330	974	983	1 140	1 150	1 350	1 840	1 880	1 880	1 440	1984
MEAN	1 770	1 870	1 580	1 480	1 580	1 820	1 880	1 470	1 580	1 910	2 080	1 870	1 580	MEAN

LOCATION - LAT 54 28 53 N
LONG 98 02 53 W

REGULATED SINCE 1975

DATA CONTRIBUTED BY - MANITOBA HYDRO

NELSON RIVER (WEST CHANNEL) AT JENPEG - STATION NO. 05UB005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	3 080 AT 15:28 CST ON JUL 10	3 000 ON JUL 10	---	---	1967
1968	2 840 AT 13:50 CST ON SEP 15	2 880 ON SEP 15	---	---	1968
1969	3 000 AT 04:14 CST ON MAY 26	2 870 ON MAY 26	---	---	1969
1972	3 140 AT 12:41 CST ON MAY 30 *	3 080 ON MAY 22	1 800B ON DEC 31	70 400 000	1972
1973	---	---	---	---	1973
1974	---	3 280 ON MAY 28	878 ON JUL 19	81 800 000	1974
1977	---	2 180 ON NOV 16	878 ON MAY 19	35 000 000	1977
1978	---	2 470 ON DEC 2	827 ON JUL 2	43 000 000	1978
1979	---	3 850 ON JUL 9 *	880 ON AUG 20	89 000 000	1979
1980	---	2 280 ON DEC 6	254 ON MAY 16 *	40 200 000	1980
1981	---	2 380 ON OCT 23	378 ON JUN 7	34 100 000	1981
1982	---	2 320 ON NOV 10	733 ON MAY 27	47 000 000	1982
1983	---	2 210 ON NOV 18	872 ON JUN 11	48 400 000	1983
1984	---	2 080 ON NOV 13	880 ON MAY 28	45 500 000	1984
				50 000 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

NELSON RIVER ABOVE BLADDER RAPIDS - STATION NO. 05UD004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	---	---	---	---	---	2 080	2 030	1 810	---	1958
1959	1 350	1 280	1 040	1 110	2 080	2 780	2 970	2 940	3 930	2 710	3 420	1 870	2 130	1959
1960	1 750	1 680	1 880	2 020	2 850	3 180	3 040	2 840	2 890	2 480	2 130	1 880	2 350	1960
1961	1 380	1 380	1 380	1 520	1 820	2 150	2 080	1 970	1 410	1 850	1 380	852	1 620	1961
1962	863	826	788	815	1 780	2 040	2 230	2 280	2 370	2 480	2 200	1 880	1 880	1962
1963	885	948	1 240	1 580	2 070	2 470	2 850	2 510	2 440	2 320	2 080	1 880	1 920	1963
1964	1 420	1 330	1 210	1 210	1 930	2 200	2 280	2 240	2 210	2 100	1 970	1 800	1 810	1964
1965	1 350	1 320	1 350	1 580	2 460	3 280	3 400	3 410	3 280	3 230	2 880	2 580	2 480	1965
1966	2 260	2 080	2 140	2 580	3 300	4 270	4 540	4 230	3 890	3 520	2 720	2 350	3 180	1966
1967	2 330	2 240	2 210	2 280	3 080	3 750	3 840	3 320	3 080	2 800	2 300	2 010	2 740	1967
1968	1 980	1 850	1 780	1 770	2 240	2 810	2 880	2 610	2 740	2 700	2 540	1 980	2 290	1968
1969	2 080	2 150	2 340	2 700	3 310	3 310	3 270	3 230	3 380	3 290	3 130	2 880	2 810	1969
1970	2 630	2 480	2 740	2 780	3 280	3 840	3 820	3 800	3 240	2 940	3 000	2 580	3 080	1970
1971	2 200	2 380	2 480	2 780	3 440	3 880	3 410	3 120	2 820	2 710	2 280	2 010	2 780	1971
1972	1 940	2 080	2 380	2 870	3 380	3 810	3 410	3 080	2 780	2 640	2 210	1 870	2 680	1972
1973	2 010	2 020	2 100	2 170	2 400	2 030	1 920	1 630	1 600	1 970	1 850	1 880	1 880	1973
1974	1 830	1 780	1 820	2 410	3 330	4 180	4 480	4 270	3 880	3 880	3 330	2 880	3 130	1974
1975	2 180	2 180	2 510	2 780	3 380	3 720	3 180	3 330	3 050	3 780	3 850	3 080	3 070	1975
1976	3 310	2 820	2 480	2 820	3 180	3 220	2 810	2 080	1 780	2 270	2 230	2 380	2 580	1976
1977	1 880	1 480	1 440	1 080	822	1 080	1 080	1 020	1 050	1 300	2 280	1 840	1 350	1977
1978	1 740	1 630	1 880	1 820	1 880	1 180	1 180	1 300	1 880	2 840	2 870	2 780	1 820	1978
1979	2 380	2 220	2 200	2 300	3 480	4 870	4 420	2 320	1 880	2 280	3 020R	2 330R	2 780R	1979
1980	2 130	2 080	1 870	1 880	1 180	1 200	1 000	1 180	1 280	2 080	2 440	2 380	1 730	1980
1981	2 220	1 880	1 880	1 110	1 040	818	1 210	1 170	1 420	2 240	2 740	2 210	1 880	1981
1982	1 880	1 780	1 880	1 810	1 770	1 410	1 480	1 740	2 370	2 830	2 880	3 730	2 020	1982
1983	2 880	2 880	2 880	2 820	2 180	1 780	1 880	1 800	1 880	2 280	2 830	2 810	2 280	1983
1984	2 380	2 120	1 880	2 020	1 840	1 800	1 780	1 780	1 840	2 080	2 270	2 390	1 880	1984
MEAN	1 880	1 880	1 880	1 880	2 420	2 880	2 880	2 810	2 420	2 840	2 810R	2 180R	2 310	MEAN

LOCATION - LAT 54 48 30 N
LONG 97 55 50 W

DRAINAGE AREA, 1 000 000 km^2
REGULATED SINCE 1973

R - REVISED SINCE JAN 1980

REMARKS - FOR THE PERIOD 1914-51 LAKE WINNIPEG ELEVATION WERE USED TO COMPUTE MONTHLY MEAN DISCHARGES FOR THIS STATION

NELSON RIVER ABOVE BLADDER RAPIDS - STATION NO. 05UD004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	---	---	---	1958
1959	---	3 080 ON SEP 9	9868 ON MAR 31	87 100 000	1959
1960	---	3 280 ON JUN 15	1 480B ON DEC 31	74 400 000	1960
1961	---	2 220 ON JUN 7	8870 ON DEC 20 *	51 100 000	1961
1962	---	2 550 ON OCT 11	7288 ON APR 15	53 000 000	1962
1963	---	2 720 ON JUN 30	8178 ON FEB 3	60 500 000	1963
1964	---	2 360 ON AUG 5	1 190B ON MAR 21	57 200 000	1964
1965	---	3 510A ON JUN 28	1 310B ON JAN 11	78 500 000	1965
1966	---	4 620 ON JUL 12	2 050B ON FEB 5	99 900 000	1966
1967	3 850 AT 08:40 CST ON JUN 6	3 820 ON JUN 6	1 980B ON DEC 21	86 400 000	1967
1968	---	2 880 ON SEP 21	1 700 ON APR 8	72 400 000	1968
1969	3 570 AT 10:42 CST ON SEP 5	3 540 ON SEP 5	1 830B ON JAN 1	91 700 000	1969
1970	3 940 AT 21:33 CST ON JUL 15	3 910 ON JUL 11	2 350B ON DEC 31	86 200 000	1970
1971	3 650 AT 02:00 CST ON MAY 29	3 650 ON MAY 28	1 990B ON DEC 21	87 600 000	1971
1972	3 880 AT 02:11 CST ON JUN 14	3 820 ON JUN 14	1 780B ON DEC 11	83 900 000	1972
1973	2 640 AT 05:34 CST ON MAY 26	2 630 ON MAY 25	1 500 ON SEP 16	62 400 000	1973
1974	4 590 AT 04:00 CST ON JUL 15	4 580 ON JUL 14	1 670B ON FEB 27	98 800 000	1974
1975	---	3 940E ON AUG 28	2 020B ON JAN 30	95 900 000	1975
1976	---	3 620E ON JAN 1	1 880 ON SEP 15	81 600 000	1976
1977	2 630 AT 08:07 CST ON NOV 20	2 630 ON NOV 20	878E ON MAY 10	42 800 000	1977
1978	3 170 AT 07:00 CST ON NOV 5	3 140 ON NOV 5	1 120 ON JUN 9	67 500 000	1978
1979	4 780 AT 14:48 CST ON JUN 20 *	4 780 ON JUN 20 *	1 250 ON AUG 31	87 100 000R	1979
1980	2 580 AT 18:27 CST ON NOV 3	2 580 ON NOV 3	884 ON JUL 12	54 600 000	1980
1981	2 880 AT 21:15 CST ON NOV 7	2 880 ON NOV 6	781 ON JUN 17	52 000 000	1981
1982	3 110 AT 19:18 CST ON NOV 11	3 070 ON NOV 12	1 380 ON JUN 3	84 000 000	1982
1983	3 000 AT 21:40 CST ON NOV 7	2 930 ON NOV 7	1 580 ON JUL 8	72 200 000	1983
1984	---	2 430B ON JAN 1	1 490 ON JUN 11	82 800 000	1984
				72 800 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

NELSON RIVER AT KELSEY GENERATING STATION - STATION NO. 05UE005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	---	---	---	---	3 280	3 080	2 900	2 640	1 920	1 450	---	1980
1981	1 520	1 440	1 380	1 370	1 810	1 940	2 070	1 890	1 850	1 630	1 340	1 020	1 620	1981
1982	875	886	810	783	1 880	2 000	2 110	2 140	2 180	2 370	2 170	1 790	1 660	1982
1983	1 580	1 440	1 440	1 450	2 410	2 670	2 870	2 680	2 530	2 430	2 180	1 630	2 100	1983
1984	1 420	1 380	1 340	1 340	2 040	2 360	2 330	2 400	2 440	2 330	2 130	1 710	1 920	1984
1985	1 480	1 450	1 430	1 420	2 730	3 300	3 610	3 540	3 520	3 310	2 780	2 870	2 610	1985
1986	2 340	2 230	2 280	2 400	3 280	4 400	4 800	4 530	4 080	3 670	2 850	2 430	3 280	1986
1987	2 380	2 280	2 280	2 300	2 910	3 920	3 790	3 450	3 110	2 770	2 350	1 840	2 780	1987
1988	1 720	1 700	1 690	1 740	2 480	2 720	2 780	2 870	2 790	2 770	2 550	2 510	2 350	1988
1989	2 300	2 170	2 420	2 880	3 280	3 320	3 230	3 380	3 840	3 670	3 080	2 890	3 010	1989
1970	2 880	2 820	2 810	2 800	3 320	3 810	4 110	3 900	3 670	3 110	2 870	2 340	3 110	1970
1971	2 370	2 280	2 480	2 640	3 680	3 820	3 780	3 380	3 140	2 900	2 400	2 200	2 920	1971
1972	2 070	2 040	2 130	2 380	3 550	3 930	3 750	3 280	2 920	2 820	2 140	1 730	2 710	1972
1973	1 780	1 770	1 790	1 890	2 430	2 170	1 880	1 800	1 800	1 700	1 880	1 840	1 900	1973
1974	1 880	1 820	2 030	2 140	2 780	3 410	3 880	3 870	3 590	3 440	3 080	2 370	2 870	1974
1975	2 320	2 270	2 380	2 340	2 820	3 210	3 050	2 880	2 780	3 110	3 180	2 410	2 740	1975
1976	2 470	2 170	2 030	2 170	2 820	3 000	2 880	2 040	1 740	1 940	2 020	1 840	2 280	1976
1977	1 710	1 640	1 880	1 880	887	1 100	1 180	898	1 210	1 270	1 880	1 800	1 410	1977
1978	1 780	1 830	1 880	1 890	1 430	1 250	1 170	1 250	1 440	2 180	2 800	2 880	1 780	1978
1979	2 120	2 840	2 420	2 080	2 810	3 900	4 030	2 890	1 830	1 830	2 480	2 290	2 810	1979
1980	2 100	2 070	2 180	1 880	1 340	1 180	878	1 080	1 320	1 740	2 140	2 150	1 880	1980
1981	2 140	2 170	1 820	815	840	988	1 320	882	1 320	1 770	2 330	2 170	1 580	1981
1982	1 840	1 800	1 880	1 810	1 890	1 480	1 800	1 490	1 880	2 330	2 440	2 300	1 850	1982
1983	2 180	2 240	2 300	2 340	1 930	1 740	1 850	1 710	1 750	1 880	2 320	2 220	2 030	1983
1984	2 180	2 080	2 180	1 880	1 880	1 810	1 570	1 880	1 880	1 880	1 880	2 080	1 880	1984
MEAN	1 980	1 830	1 940	1 800	2 370	2 830	2 700	2 520	2 420	2 480	2 370	2 100	2 270	MEAN

LOCATION - LAT 56 02 20 N
LONG 96 31 30 W
DRAINAGE AREA, 1 010 000 km^2
REGULATED SINCE 1980
DATA CONTRIBUTED BY - MANITOBA HYDRO

NELSON RIVER AT KELSEY GENERATING STATION - STATION NO. 05UE005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	---	---	---	1960
1961	---	2 580 ON AUG 2	881 ON DEC 20	61 200 000	1961
1962	---	2 510 ON OCT 18	742 ON APR 14	52 300 000	1962
1963	---	3 000 ON JUL 11	1 310 ON APR 14	85 200 000	1963
1964	---	2 890 ON SEP 13	1 150 ON APR 8	80 800 000	1964
1965	---	3 770 ON SEP 14	1 270 ON APR 11	82 400 000	1965
1966	---	4 880 ON JUL 22 *	2 180 ON FEB 3	103 000 000	1966
1967	---	4 020 ON JUN 3	1 810 ON DEC 31	88 000 000	1967
1968	---	3 340 ON DEC 25	1 570 ON MAR 5	74 400 000	1968
1969	---	3 820 ON SEP 9	2 040 ON JAN 14	94 900 000	1969
1970	---	4 180 ON JUL 8	2 280 ON DEC 18	98 100 000	1970
1971	---	3 880 ON JUL 9	1 850 ON NOV 22	92 100 000	1971
1972	---	4 180 ON JUN 18	1 800 ON DEC 13	85 700 000	1972
1973	---	2 880 ON JUN 4	1 440 ON SEP 13	80 000 000	1973
1974	---	3 980 ON JUL 29	1 830 ON FEB 5	90 500 000	1974
1975	---	3 430 ON JUL 1	2 200 ON FEB 8	88 300 000	1975
1976	---	3 170 ON JUN 8	1 600 ON SEP 18	71 500 000	1976
1977	---	2 120 ON NOV 18	419 ON MAY 8 *	44 300 000	1977
1978	---	2 750 ON NOV 7	871 ON JUL 10	55 300 000	1978
1979	---	4 080 ON JUL 7	1 380 ON SEP 6	82 500 000	1979
1980	---	2 260 ON MAR 10	884 ON JUL 21	53 300 000	1980
1981	---	2 470 ON NOV 28	497 ON AUG 3	49 300 000	1981
1982	---	2 690 ON NOV 10	1 090 ON JUL 1	88 400 000	1982
1983	---	2 480 ON NOV 18	1 520 ON MAY 4	84 100 000	1983
1984	---	2 270 ON JAN 1	1 370 ON MAY 6	88 800 000	1984
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		71 800 000	MEAN

NELSON RIVER BELOW SIPIWESK LAKE - STATION NO. 05UE004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1951	---	---	---	---	---	---	---	3 310	3 180	3 110	2 550	2 010	---	1951
1952	1 770	1 700	1 650	1 710	2 810	2 880	2 980	2 810	2 850	2 720	2 520	2 150	2 370	1952
1953	1 910	1 750	1 670	1 650	2 090	2 500	2 940	3 100	3 100	3 120	2 880	2 430	2 440	1953
1954	2 120	1 840	1 810	1 590	2 180	2 870	3 270	3 540	3 570	3 530	3 370	3 110	2 720	1954
1955	2 830	2 480	2 240	2 180	3 080	3 510	3 800	3 780	3 580	3 380	2 880	2 580	3 020	1955
1956	2 420	2 170	2 080	2 020	2 830	3 400	3 450	3 410	3 250	2 940	2 740	2 210	2 750	1956
1957	1 900	1 750	1 700	1 680	2 210	2 730	2 980	2 820	2 700	2 270	1 840	2 300	1957
1958	1 840	1 830	1 800	1 590	2 030	2 310	2 250	2 280	2 280	---	---	---	---	1958
MEAN	2 080	1 890	1 780	1 770	2 430	2 880	3 090	3 180	3 080	3 070	2 780	2 330	2 800	MEAN

LOCATION - LAT 56 13 24 N
LONG 97 13 05 W

DRAINAGE AREA, 1 010 000 km^2
NATURAL FLOW

NELSON RIVER BELOW SIPIWESK LAKE - STATION NO. 05UE004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1951	---	---	---	---	1951
1952	---	3 030 ON JUL 23	1 850E ON MAR 1	75 000 000	1952
1953	---	3 140 ON SEP 30	1 650E ON APR 1	77 000 000	1953
1954	---	3 800 ON SEP 3	1 590E ON APR 1	85 900 000	1954
1955	3 850 AT 09:00 CST ON JUL 21 *	3 850 ON JUL 18 *	2 180E ON APR 1	95 400 000	1955
1956	3 480 AT 02:00 CST ON JUL 23	3 480 ON JUL 23	2 020E ON APR 1	86 800 000	1956
1957	3 030 AT 20:00 CST ON AUG 7	3 000 ON JUL 28	1 680E ON APR 1	72 400 000	1957
1958	---	2 340 ON JUN 12	1 500E ON MAR 1 *	---	1958
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		82 100 000	MEAN

NETLEY CREEK NEAR MATLOCK - STATION NO. 05OJ009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	1.43	0.408	0.086	0.010	0.051	0.024	0.004	---	---	0.478	1980
1981	---	---	0.088	0.381	0.024	0	0	0	0	0	---	---	0.113	1981
1982	---	---	0	0.383	0.104	0.159	0	0.831	0.188	0.088	---	---	0.152	1982
1983	---	---	0.515	4.42	1.87	2.94	0.561	0.078	0	0	---	---	2.42	1983
1984	---	---	0	0.188	0.084	0.087	0.040	0.050	0	0	---	---	0.083	1984
1985	---	---	0	1.01	0.483	0.418	0.116	0.007	0.003	0.003	---	---	0.478	1985
1986	---	---	0.100	0.741	0.888	0.094	0.082	0.003	0	0	---	---	0.458	1986
1987	---	---	0	1.48	0.457	0.018	0	0	0	0	---	---	0.483	1987
1988	---	---	0.083	0.078	0.033	0.011	0.009	0.302	0.048	0.027	---	---	0.051	1988
1989	---	---	0	2.17	0.837	0.235	0.043	0.028	0.008	0.008	---	---	0.805	1989
1970	---	---	0	0.843	1.06	0.297	0.104	0.018	0	0.001	---	---	0.570	1970
1971	---	---	0	0.887	0.124	0.010	0.008	0.001	0	0	---	---	0.247	1971
1972	---	---	0	0.888	0.043	0.002	0	0	0	0	---	---	0.224	1972
1973	---	---	0.032	0.002	0.003	0.428	---	---	---	---	---	---	0.115	1973
1974	---	---	0	7.44	7.28	1.46	---	---	---	---	---	---	4.03	1974
1975	---	---	0	0.349	0.105	0.012	---	---	---	---	---	---	0.115	1975
1976	---	---	0	3.55	0.884	0.082	---	---	---	---	---	---	1.15	1976
1977	---	---	0	0.002	0	0.004	---	---	---	---	---	---	0.002	1977
1978	---	---	0	3.48	0.775	0.187	---	---	---	---	---	---	1.10	1978
1979	---	---	0	2.86	3.82	1.78	---	---	---	---	---	---	2.09	1979
1980	---	---	0	0.177	0	0	---	---	---	---	---	---	0.044	1980
1981	---	---	0.011	0.008	0.002	0.003	---	---	---	---	---	---	0.008	1981
1982	---	---	0.271	2.03	0.082	0.009	---	---	---	---	---	---	0.585	1982
1983	---	---	0.027	2.07	0.108	0.134	---	---	---	---	---	---	0.575	1983
1984	---	---	0.028	0.142	0.028	0.055	---	---	---	---	---	---	0.082	1984
MEAN	---	---	0.045	1.47	0.788	0.340	0.081	0.105	0.021	0.008	---	---	0.857	MEAN

LOCATION - LAT 50 28 52 N DRAINAGE AREA, 245 km²
LONG 97 08 58 W NATURAL FLOW

REMARKS - HIGHER MAX DISCHARGES OCCURRED OUTSIDE THE STD PER IN 1984 AND 88. EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

NETLEY CREEK NEAR MATLOCK - STATION NO. 05OJ009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1980	---	4.81 B ON APR 17	08 ON MAR 1 *	5 030	1980
1981	---	0.580 ON APR 2	08 ON MAR 1	1 180	1981
1982	---	3.26 ON APR 20	08 ON MAR 1	1 510	1982
1983	---	5.27 ON APR 6	08 ON MAR 1	25 400	1983
1984	---	0.617 ON APR 18	08 ON MAR 1	874	1984
1985	---	5.15 B ON APR 14	08 ON MAR 1	5 020	1985
1986	---	3.98 ON MAY 5	08 ON MAR 1	4 630	1986
1987	---	4.02 B ON APR 14	08 ON MAR 1	5 090	1987
1988	---	1.11 B ON MAR 30	08 ON MAR 1	535	1988
1989	---	8.01 B ON APR 13	08 ON MAR 1	8 480	1989
1970	---	4.84 B ON APR 19	08 ON MAR 1	8 000	1970
1971	---	4.47 ON APR 19	08 ON MAR 1	2 810	1971
1972	---	4.42 ON APR 18	08 ON MAR 1	2 380	1972
1973	---	1.85 ON JUN 19	08 ON MAR 1	1 210	1973
1974	---	28.7 ON APR 22 *	08 ON MAR 1	42 500	1974
1975	---	1.13 B ON APR 23	08 ON MAR 1	1 220	1975
1976	---	7.05 ON APR 13	08 ON MAR 1	12 100	1976
1977	---	0.028 ON JUN 19	08 ON MAR 1	18.4	1977
1978	---	6.71 ON APR 13	08 ON MAR 1	11 800	1978
1979	---	9.84 ON APR 22	08 ON MAR 1	22 000	1979
1980	---	0.672E ON APR 14	08 ON MAR 1	459	1980
1981	0.775 AT 09:31 CST ON MAY 5	0.083E ON MAR 29	08 ON MAR 1	63.6	1981
1982	---	7.03 B ON APR 13	08 ON MAR 1	5 170	1982
1983	8.74 AT 13:12 CST ON APR 6 *	5.18 ON APR 6	08 ON MAR 1	8 080	1983
1984	---	0.340E ON MAR 30	08 ON MAR 1	853	1984
				6 920	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NETLEY CREEK NEAR PETERSFIELD - STATION NO. 05OJ008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.024	8.31	1.14	0.285	0.107	0.120	0.089	0.003	---	---	1.24	1960
1961	---	---	0.632	1.73	0.309	0.028	0.001	0	0	0.002	---	---	0.334	1961
1962	---	---	0	3.11	0.353	0.282	0.082	2.14	0.441	0.301	---	---	0.830	1962
1963	---	---	2.22	10.6	2.41	5.88	0.907	0.230	0.047	0.078	---	---	2.78	1963
1964	---	---	0.008	1.94	0.324	0.173	0.124	0.170	0.130	0.092	---	---	0.388	1964
1965	---	---	0	5.89	0.963	0.789	0.238	0.088	0.104	0.118	---	---	1.10	1965
1966	---	---	0.008	4.43	2.84	0.297	0.245	0.087	0.047	0.095	---	---	0.972	1966
1967	---	---	0	5.70	0.984	0.118	0.068	0.023	0.021	0.018	---	---	0.878	1967
1968	---	---	0.540	1.25	0.159	0.172	0.229	0.837	0.352	0.240	---	---	0.484	1968
1969	---	---	0.040	7.36	1.94	0.819	0.314	0.200	0.085	0.103	---	---	1.32	1969
1970	---	---	0.010	5.67	1.91	0.572	0.288	0.070	0.090	0.080	---	---	1.22	1970
1971	---	---	0.013	7.08	0.295	0.229	0.440	0.048	0.083	0.218	---	---	1.03	1971
1972	---	---	0.016	5.81	0.205	0.057	0.081	0.037	0.042	0.042	---	---	0.745	1972
1973	---	---	0.851	0.078	0.023	0.471	0.122	0.098	0.208	0.335	---	---	0.248	1973
1974	---	---	0.014	22.5	13.8	2.34	0.783	0.184	0.105	0.090	---	---	4.83	1974
1975	---	---	0.003	2.36	0.238	0.080	0.028	0.031	0.025	0.050	---	---	0.344	1975
1976	---	---	0	8.26	1.22	0.188	0.038	0.012	0.030	0.033	---	---	1.32	1976
1977	---	---	0.011	0.272	0.028	0.157	0.053	0.038	0.471	0.178	---	---	0.149	1977
1978	---	---	0	11.5	1.13	0.347	0.580	0.015	0.005	0.054	---	---	1.88	1978
1979	---	---	0	13.7	7.05	2.70	0.384	0.078	0.077	0.082	---	---	2.97	1979
1980	---	---	0	1.36	0.221	0.080	0.012	0.053	0.051	0.150	---	---	0.238	1980
1981	---	---	0.144	0.117	0.027	0.013	0.083	0.012	0.055	0.387	---	---	0.104	1981
1982	---	---	1.24	3.84	0.345	0.154	0.070	0.138	0.084	0.232	---	---	0.784	1982
1983	---	---	0.424	5.61	0.192	1.53	0.381	0.110	0.047	0.074	---	---	1.15	1983
1984	---	---	0.484	0.810	0.148	0.175	0.136	0.100	0.088	0.148	---	---	0.280	1984
MEAN	---	---	0.259	5.77	1.52	0.708	0.230	0.199	0.108	0.128	---	---	1.10	MEAN

LOCATION - LAT 50 19 38 N DRAINAGE AREA, 598 km²
LONG 97 02 39 W NATURAL FLOW

NETLEY CREEK NEAR PETERSFIELD - STATION NO. 05OJ008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1960	---	41.3 ON APR 15	0 B ON MAR 1 *	28 200	1960
1961	---	5.30 ON APR 21	0 B ON MAR 1	7 080	1961
1962	---	25.0 B ON APR 21	0 B ON MAR 1	17 600	1962
1963	---	37.4 ON APR 8	0 ON SEP 8	58 500	1963
1964	---	8.63 B ON APR 15	0.0088 ON MAR 1	7 750	1964
1965	---	31.4 ON APR 15	0 B ON MAR 1	23 300	1965
1966	---	12.5 ON MAY 5	0 B ON MAR 1	20 800	1966
1967	---	21.0 ON APR 15	0 B ON MAR 1	20 700	1967
1968	---	7.59 ON AUG 25	0 B ON MAR 1	10 200	1968
1969	---	32.8 B ON APR 13	0.0408 ON MAR 1	27 800	1969
1970	---	25.5 B ON APR 25	0.0108 ON MAR 1	25 900	1970
1971	---	28.6 ON APR 15	0.011 ON AUG 28	21 900	1971
1972	---	23.2 ON APR 15	0.0188 ON MAR 1	15 700	1972
1973	---	3.48 B ON MAR 23	0.018 ON JUN 12	5 240	1973
1974	---	71.8 ON APR 21 *	0.0148 ON MAR 1	104 000	1974
1975	---	8.84 ON APR 21	0 ON JUL 15	7 280	1975
1976	---	38.5 ON APR 10	0 B ON MAR 1	28 000	1976
1977	---	2.42 ON SEP 26	0 B ON MAR 1	3 180	1977
1978	---	38.0 ON APR 15	0 B ON MAR 1	35 800	1978
1979	---	62.4 ON APR 23	0 B ON MAR 1	82 800	1979
1980	---	4.91 B ON APR 10	0 B ON MAR 1	4 880	1980
1981	0.848 AT 03:04 CST ON OCT 14	0.795 ON OCT 14	0 B ON MAR 1	2 200	1981
1982	12.0 AT 03:12 CST ON APR 15 *	11.7 B ON MAR 30	0 B ON MAR 1	15 200	1982
1983	---	21.7 ON APR 8	0 B ON MAR 1	24 300	1983
1984	---	3.83 B ON MAR 31	0 B ON MAR 1	5 510	1984
				33 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

NORTH SEAL RIVER BELOW STONY LAKE - STATION NO. 05CB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	---	---	---	286	209	163	---	1972
1973	85.2	66.2	56.1	43.2	78.6	143	126	87.4	83.8	85.1	82.1	62.3	78.8	1973
1974	39.1	36.8	31.0	24.6	---	---	101	173	184	156	112	87.7	---	1974
1975	63.8	46.5	37.3	41.7	115	198	208	184	107	86.8	77.7	70.5	101	1975
1976	63.8	48.6	41.0	38.4	---	---	230	136	103	139	136	100	---	1976
1977	78.7	63.6	51.0	66.1	178	278	248	288	218	172	126	88.7	155	1977
1978	66.2	48.7	36.8	28.8	40.4	266	278	274	380	287	186	123	188	1978
1979	66.8	57.8	42.0	34.8	38.3	213	185	123	82.7	70.1	86.8	86.8	86.8	1979
1980	40.4	33.6	29.6	35.6	78.7	127	131	172	361	278	180 R	118 R	134 R	1980
1981	72.2	52.0	41.1	36.3	70.6	200	188	123	105	86.9	83.7	101	101	1981
1982	48.4	38.4	32.1	27.8	83.1	214	215	130	103	111	110	78.0	89.3	1982
1983	58.7	48.0	42.8	38.1	46.8	378	488	282	278	308	250	181	198	1983
1984	108	78.7	58.2	57.1	213	264	188	143	110	105	86.3	86.8	124	1984
MEAN	67.8	51.8	41.8	38.7	94.8	227	218	177	178	165	130 R	83.0R	124	MEAN

LOCATION - LAT 58 50 40 N DRAINAGE AREA, 17 800 km²
LONG 98 17 20 W NATURAL FLOW

R - REVISED SINCE JAN 1980

NORTH SEAL RIVER BELOW STONY LAKE - STATION NO. 06ED001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	---	149 ON JUN 13	38.68 ON DEC 28	2 390 000	1973
1974	203 AT 14:00 CST ON SEP 8	200 ON SEP 8	---	---	1974
1975	225 AT 17:00 CST ON JUL 2	222 ON JUL 2	38.08 ON MAR 28	3 180 000	1975
1976	283 AT 11:35 CST ON JUN 21	281 ON JUN 21	---	---	1976
1977	317 AT 10:30 CST ON AUG 11	314 ON AUG 11	45.38 ON APR 5	4 880 000	1977
1978	408 AT 17:18 CST ON SEP 11	405 ON SEP 11	27.88 ON APR 29	5 330 000	1978
1979	251 AT 18:40 CST ON JUN 18	247 ON JUN 18	32.68 ON MAY 2	2 790 000	1979
1980	424 AT 18:57 CST ON SEP 18	422 ON SEP 18	27.88 ON APR 8	4 230 000R	1980
1981	215 AT 14:56 CST ON JUL 5	214 ON JUL 9	35.68 ON APR 30	3 190 000	1981
1982	252 AT 15:45 CST ON JUL 1	252 ON JUL 3	26.18 ON APR 25 *	3 120 000	1982
1983	605 AT 20:20 CST ON JUN 28 *	604 ON JUN 29 *	38.18 ON APR 26	6 200 000	1983
1984	286 ON JUN 10	281 ON JUN 10	43.28 ON APR 17	3 830 000	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 830 000R	MEAN
		R - REVISED SINCE JAN 1980			

OAK CREEK NEAR STOCKTON - STATION NO. 05NG010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.617	1.17	0.288	0.014	0	0	0	---	---	---	---	1961
1962	---	---	0	3.73	0.745	1.83	0.158	0.378	0.042	0.005	---	---	---	1962
1963	---	---	0.829	0.888	0.898	0.307	0.128	0.130	0.078	0.011	---	---	---	1963
1964	---	---	0	0.891	0.817	0.188	0.058	0.012	0.010	0.009	---	---	---	1964
1965	---	---	0	3.73	1.83	0.578	0.897	0.078	0.115	0.113	---	---	---	1965
1966	---	---	2.75	2.90	1.37	0.418	0.344	0.078	0.031	0.018	---	---	---	1966
1967	---	---	0.031	0.778	0.837	0.310	0.059	0.004	0.008	0.008	---	---	---	1967
1968	---	---	0.280	0.151	0.081	0.010	0.044	0.207	0.385	0.312	---	---	---	1968
1969	---	---	0	10.4	2.89	0.388	0.455	0.307	0.280	0.193	---	---	---	1969
1970	---	---	0.005	4.83	7.91	1.91	0.755	0.407	0.173	0.080	---	---	---	1970
1971	---	---	0	1.83	1.81	1.10	0.785	0.218	0.075	0.378	---	---	---	1971
1972	---	---	2.02	3.05	1.25	0.447	0.198	0.198	0.219	1.234	---	---	---	1972
1973	---	---	0.038	0.074	0.140	0.104	0.180	0.141	0.048	0.031	0.018	0.004	---	1973
1974	0.001	0	0	14.7	5.72	2.33	0.481	0.288	0.131	0.039	0.042	0.018	2.22	1974
1975	0.017	0.018	0.013	1.85	2.31	0.809	0.125	0.123	0.226	0.188	0.075	0.018	0.474	1975
1976	0.018	0.018	0.010	18.5	3.84	0.438	0.039	0.010	0.008	0.014	0.018	0.014	1.81	1976
1977	0.008	0.003	0.003	0.018	0.021	0.001	0.008	0.002	0.008	0.008	0.007	0.003	0.007	1977
1978	0.008	0.008	0.158	2.59	0.495	0.107	0.085	0.013	0	0.001	0.001	0.002	0.287	1978
1979	0.002	0.002	0.002	3.83	5.87	0.957	0.324	0.147	0.038	0.022	0.018	0.018	0.823	1979
1980	0.011	0.013	0.008	0.252	0.012	0.004	0.013	0.118	0.001	0.004	0.007	0.002	0.037	1980
1981	0.001	0.257	0.028	0.003	0.003	0.004	0.001	0.848	0.280	0.018	0.022	0.014	0.108	1981
1982	0.008	0.004	0.885	2.30	0.801	0.188	0.234	0.035	0	0.002	0.005	0.007	0.372	1982
1983	0.008	0.007	1.20	4.67	1.33	0.341	0.152	0.014	0.001	0.001	0.001	0.002	0.842	1983
1984	0.001	0.001	0.100	0.011	0.001	0.003	0.001	0	0	0	0	0	0.010	1984
MEAN	0.008	0.028	0.374	3.50	1.88	0.528	0.221	0.147	0.088	0.057	0.018	0.008	0.835	MEAN

LOCATION - LAT 48 33 44 N DRAINAGE AREA, 1 080 km^2
LONG 99 30 48 W NATURAL FLOW

OAK CREEK NEAR STOCKTON - STATION NO. 05NG010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	5.64 B ON MAR 28	0 B ON MAR 1 *	---	1961
1962	---	28.9 ON APR 17	0 B ON MAR 1	---	1962
1963	---	7.42 B ON MAR 23	0 B ON MAR 1	---	1963
1964	---	2.75 B ON APR 6	0 B ON MAR 1	---	1964
1965	---	23.6 B ON APR 11	0 B ON MAR 1	---	1965
1966	---	13.8 B ON MAR 17	0 B ON MAR 1	---	1966
1967	---	1.47 ON APR 27	0 B ON MAR 1	---	1967
1968	---	1.29 ON AUG 25	0 ON AUG 10	---	1968
1969	---	37.9 ON APR 11	0 B ON MAR 1	---	1969
1970	---	15.7 ON APR 25	0 B ON MAR 1	---	1970
1971	---	6.06 B ON APR 6	0 B ON MAR 1	---	1971
1972	---	12.0 B ON MAR 16	0 B ON MAR 1	---	1972
1973	1.27 AT 00:20 CST ON JUL 25	0.826 ON JUL 25	0 B ON MAR 1	---	1973
1974	58.8 B AT 18:17 CST ON APR 15 *	43.0 B ON APR 15 *	0 B ON JAN 15	70 000	1974
1975	8.13 AT 02:48 CST ON APR 29	7.85 ON APR 29	0.0108 ON DEC 29	14 900	1975
1976	---	40.6 ON APR 6	0.0028 ON APR 1	80 500	1976
1977	0.804 AT 14:59 CST ON NOV 16	0.144 ON MAY 6	0 ON MAY 31	218	1977
1978	10.5 B AT 05:43 CST ON APR 6	9.63 B ON APR 6	0 ON SEP 3	8 050	1978
1979	29.8 B AT 18:58 CST ON APR 21	21.7 B ON APR 21	0.0028 ON JAN 1	28 100	1979
1980	4.02 AT 03:27 CST ON AUG 21	2.38 ON AUG 21	0 ON MAY 28	1 180	1980
1981	11.1 AT 06:58 CST ON AUG 31	7.86 ON AUG 31	0 B ON JAN 25	3 330	1981
1982	17.8 B AT 15:44 CST ON MAR 30	13.7 B ON MAR 30	0 ON SEP 2	11 700	1982
1983	18.2 B AT 19:56 CST ON MAR 31	17.6 B ON MAR 31	0.001 ON AUG 30	20 300	1983
1984	0.9218 AT 19:48 CST ON MAR 24	0.8858 ON MAR 28	0 ON APR 23	313	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		30 100	MEAN

OAK RIVER AT SHOAL LAKE - STATION NO. 05MG008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	0.192	0.048	0.018	0	0	0	0	---	---	---	1965
1966	---	---	0.006	0.169	0.342	0.031	0.008	0	0	0	---	---	---	1966
1967	---	---	0	1.87	1.05	0.074	0.008	0	0	0	---	---	---	1967
1968	---	---	0.134	0.088	0.002	0	0	0	0	0	---	---	---	1968
1969	0	0	0	0.806	0.212	0.022	0.029	0.002	0	0.001	0	0	0.089	1969
1970	0	0	0	0.338	0.454	0.096	0.037	0.001	0.011	0.006	0.005	0.002	0.080	1970
1971	0	0	0	0.280	0.224	0.325	0.250	0.084	0.003	0.030	0.008	0	0.088	1971
1972	0	0	0.001	1.20	1.15	0.337	0.032	0.001	0	0	0	0	0.228	1972
1973	0	0	0.018	0.002	0.001	0.002	0	0	0	0	0	0	0.002	1973
1974	0	0	0	1.18	0.926	0.321	0.131	0.003	0	0	0	0	0.213	1974
1975	0	0	0	0.414	0.708	0.280	0.164	0.134	0.292	0.349	0.226	0.084	0.222	1975
1976	0.032	0.011	0.002	3.97	1.83	0.333	0.289	0.081	0.010	0.004	0.001	0	0.518	1976
1977	0	0	0.005	0.023	0.010	0	0	0	0	0	0	0	0.003	1977
1978	0	0	0.001	0.180	0.021	0.005	0	0	0	0	0	0	0.018	1978
1979	0	0	0	1.18	1.74	0.575	0.218	0.150	0	0	0	0	0.324	1979
1980	0	0	0	0.029	0	0	0	0	0.001	0.001	0.001	0	0.003	1980
1981	0	0	0.005	0.008	0.010	0.008	0.001	0	0	0	0	0	0.003	1981
1982	0	0	0	0.054	0	0	0.223	0.023	0	0	0.001	0	0.028	1982
1983	0	0	0	0.780	0.232	0	0	0	0	0	0	0	0.085	1983
1984	0	0	0	0	0	0.013	0	0	0	0	0	0	0.001	1984
MEAN	0.002	0.001	0.008	0.645	0.433	0.122	0.068	0.022	0.018	0.020	0.015	0.005	0.119	MEAN

LOCATION - LAT 50 28 33 N DRAINAGE AREA, 370 km²
LONG 100 35 18 W NATURAL FLOW

OAK RIVER AT SHOAL LAKE - STATION NO. 05MG008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	0.7798 ON APR 14	OB ON MAR 1 *	---	1965
1966	---	1.04 ON MAY 3	OB ON MAR 1	---	1966
1967	---	8.51 ON APR 25	OB ON MAR 1	---	1967
1968	---	1.37 B ON MAR 28	OB ON MAR 1	---	1968
1969	3.03 B AT 21:15 CST ON APR 10	2.68 ON APR 11	OB ON JAN 1	2 800	1969
1970	1.38 AT 02:57 CST ON APR 30	1.28 ON APR 30	OB ON JAN 1	2 510	1970
1971	1.23 AT 06:37 CST ON JUN 10	1.06 ON JUN 10	OB ON JAN 1	3 080	1971
1972	3.40 AT 01:43 CST ON APR 17	3.28 ON APR 17	OB ON JAN 1	7 150	1972
1973	---	0.0898 ON MAR 19	OB ON JAN 1	55.5	1973
1974	---	4.26 B ON APR 21	OB ON JAN 1	8 720	1974
1975	2.02 AT 08:11 CST ON MAY 1	1.97 ON MAY 1	OB ON JAN 1	7 000	1975
1976	8.87 AT 17:51 CST ON APR 15 *	7.79 ON APR 14 *	OB ON MAR 30	18 400	1976
1977	0.183 AT 03:31 CST ON APR 8	0.088 ON APR 8	OB ON JAN 1	103	1977
1978	---	0.4088 ON APR 7	OB ON JAN 1	583	1978
1979	4.23 AT 00:00 CST ON APR 25	4.14 B ON APR 24	OB ON JAN 1	10 200	1979
1980	---	0.3108 ON APR 9	OB ON JAN 1	78.7	1980
1981	---	0.014 ON JUN 26	OB ON JAN 1	82.2	1981
1982	---	0.586 ON JUL 29	OB ON JAN 1	802	1982
1983	2.77 AT 12:00 CST ON APR 24	2.76 ON APR 24	OB ON JAN 1	2 670	1983
1984	0.139 AT 07:28 CST ON JUN 23	0.081 ON JUN 23	OB ON JAN 1	34.8	1984
				3 770	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OAK RIVER NEAR BRADWARDINE - STATION NO. 05MG010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	1.50	2.30	1.18	0.084	0.015	0.014	0.014	0.018	---	---	---	1966
1967	---	---	0	8.01	2.81	0.492	0.008	0.002	0	0.007	---	---	---	1967
1968	---	---	2.48	0.895	0.037	0	0	0	0	0	---	---	---	1968
1969	0	0	0	15.4	1.14	0.250	0.922	0.339	0.048	0.102	0.203	0.030	1.80	1969
1970	0.004	0.003	0.003	5.69	3.37	0.504	0.172	0.028	0.007	0.022	0.043	0.003	0.902	1970
1971	0	0	0.015	1.77	0.310	3.84	1.73	0.303	0.063	0.189	0.084	0.014	0.888	1971
1972	0.001	0.001	1.71	5.18	2.68	0.896	0.128	0.018	0.001	0.004	0.003	0	0.884	1972
1973	0	0	0.348	0.054	0.048	0.051	0.008	0.002	0	0.035	0.011	0.002	0.047	1973
1974	0	0	0	9.63	2.54	0.595	0.011	0.008	0.024	0.015	0.012	0.003	1.06	1974
1975	0.002	0.008	0.007	7.78	3.87	0.851	0.200	0.203	0.388	0.321	0.305	0.091	1.18	1975
1976	0.057	0.047	0.052	21.3	3.85	1.26	0.400	0.047	0.018	0.009	0.008	0.001	2.24	1976
1977	0.003	0.004	0.041	0.088	0.114	0.050	0.045	0.003	0.008	0.008	0.012	0.003	0.033	1977
1978	0.003	0.003	0.885	2.14	0.240	0.034	0.008	0.008	0	0.002	0.003	0.003	0.258	1978
1979	0.003	0.003	0.003	8.19	3.25	0.879	0.214	0.018	0.001	0.001	0.001	0.001	1.04	1979
1980	0.001	0.001	0.002	0.433	0.007	0.001	0	0.001	0	0.002	0.002	0.001	0.037	1980
1981	0.001	0.012	0.138	0.032	0.004	0.007	0.006	0.008	0.012	0.001	0.001	0.002	0.018	1981
1982	0	0	0.388	2.81	0.134	0.010	0.004	0	0	0.008	0.002	0	0.258	1982
1983	0	0	0.003	8.87	1.11	0.048	0.042	0.008	0.008	0.002	0.002	0.002	0.818	1983
MEAN	0.008	0.008	0.407	5.73	1.48	0.853	0.217	0.058	0.033	0.040	0.048	0.010	0.741	MEAN

LOCATION - LAT 49 55 30 N DRAINAGE AREA, 1 840 km²
LONG 100 27 48 W REGULATED

OAK RIVER NEAR BRADWARDINE - STATION NO. 05MG010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	10.2 ON APR 1	0 B ON MAR 1 *	---	1965
1967	18.0 AT 14:00 CST ON APR 15	18.4 ON APR 15	0 B ON MAR 1	---	1967
1968	---	12.8 B ON MAR 26	0 B ON MAR 1	---	1968
1969	---	87.5 B ON APR 12 *	0 B ON JAN 1	50 800	1969
1970	---	18.5 B ON APR 12	0 B ON DEC 20	28 400	1970
1971	27.5 AT 18:00 CST ON JUN 15	22.9 ON JUN 15	0 B ON JAN 1	21 700	1971
1972	---	18.7 ON APR 18	0 ON AUG 31	30 500	1972
1973	---	1.13 B ON MAR 13	0 B ON JAN 1	1 480	1973
1974	---	39.8 B ON APR 18	0 B ON JAN 11	33 800	1974
1975	---	36.5 A ON APR 28	0.0018 ON JAN 1	38 500	1975
1976	48.7 AT 19:22 CST ON APR 10 *	45.3 ON APR 10	0.0018 ON NOV 30	70 700	1976
1977	0.857 AT 10:00 CST ON MAY 28	0.348 ON MAY 23	0 ON AUG 17	1 030	1977
1978	10.3 AT 03:28 CST ON APR 7	7.70 ON APR 7	0 ON JUL 14	8 130	1978
1979	31.6 AT 05:40 CST ON APR 22	30.8 ON APR 21	0 ON AUG 28	32 900	1979
1980	---	1.88 B ON APR 7	0 ON JUN 10	1 170	1980
1981	0.425 AT 11:33 CST ON JUL 7	0.2888 ON MAR 21	0 B ON FEB 7	587	1981
1982	11.7 B AT 03:44 CST ON APR 13	10.4 B ON APR 13	0 B ON JAN 1	8 150	1982
1983	28.0 B AT 04:25 CST ON APR 10	23.5 B ON APR 10	0 B ON JAN 1	25 800	1983
				23 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OAK RIVER NEAR OUTLET OF RAVEN LAKE - STATION NO. 05MG012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	0.083	0.140	0.023	0.004	0	0	0	---	---	---	1969
1970	---	---	0	0.082	0.854	0.808	0.100	0.023	0.025	0.024	---	---	---	1970
1971	---	---	0	0.020	0.083	0.126	0.703	0.378	0.088	0.023	---	---	---	1971
1972	0	0	0	0.512	2.14	0.818	0.143	0.028	0	0	0	0	0.305	1972
1973	0	0	0.001	0.014	0.001	0	0	0	0	0	0	0	0.001	1973
1974	0	0	0	0.041	0.555	0.470	0.085	0.011	0	0	0	0	0.098	1974
1975	0	0	0	0.038	0.432	0.548	0.121	0.064	0.108	0.201	0.254	0.152	0.180	1975
1976	0.082	0.084	0.082	3.42	2.03	0.781	0.274	0.138	0.055	0.035	0.006	0	0.577	1976
MEAN	0.018	0.013	0.008	0.521	0.777	0.481	0.178	0.080	0.034	0.035	0.052	0.030	0.228	MEAN

LOCATION - LAT 50 19 35 N LONG 100 38 00 W DRAINAGE AREA, 443 km^2 REGULATED

REMARKS - DAILY DISCHARGES PRIOR TO 1973 HAVE NOT BEEN PUBLISHED

OAK RIVER NEAR OUTLET OF RAVEN LAKE - STATION NO. 05MG012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	0.280 ON APR 15	0B ON MAR 1 *	---	1969
1970	---	1.10 ON MAY 15	0B ON MAR 1	---	1970
1971	---	0.847 ON JUL 19	0B ON MAR 1	---	1971
1972	---	2.45 ON MAY 5	0B ON JAN 1	9 650	1972
1973	---	0.028 ON APR 14	0B ON JAN 1	44.3	1973
1974	---	0.838 ON MAY 23	0B ON JAN 1	3 020	1974
1975	---	0.742 ON MAY 25	0B ON JAN 1	5 080	1975
1976	---	7.42 ON APR 24 *	0B ON NOV 22	18 200	1976
				7 190	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OAK RIVER NEAR RIVERS - STATION NO. 05MG004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	0.207	0.028	0	0	0	0	0	0	---	---	---	1958
1960	---	---	0	3.38	0.334	0.084	0	0	0	0	---	---	---	1960
1961	---	---	0	0.117	0.008	0	0	0	0	0	---	---	---	1961
1962	---	---	0	1.01	0.029	0	0	0.007	0.002	0	---	---	---	1962
1963	---	---	0.918	0.475	0.023	0.885	0.105	0	0	0	---	---	---	1963
1964	---	---	0	1.56	0.287	0.008	0	0	0.004	0.001	---	---	---	1964
1965	---	---	0	3.38	0.072	0.038	0.112	0.003	0.008	0.007	---	---	---	1965
1966	---	---	0.835	0.855	0.378	0.008	0	0	0	0	---	---	---	1966
1967	---	---	0	4.84	1.21	0.088	0	0	0	0	---	---	---	1967
1968	---	---	0.833	0.486	0.008	0.001	0	0.001	0	0	---	---	---	1968
1969	0	0	0	7.40	0.321	0.043	0.298	0.029	0.005	0.006	0.004	0	0.588	1969
1970	0	0	0	2.81	2.08	0.392	0.283	0.024	0.018	0.084	0.088	0	0.457	1970
1971	0	0	0.002	0.570	0.183	2.41	1.20	0.288	0.089	0.095	0.028	0.003	0.403	1971
1972	0	0	0.210	3.28	2.12	0.785	0.100	0.007	0	0	0	0	0.641	1972
1973	0	0	0.083	0.011	0.012	0.004	0	0	0	0	0	0	0.010	1973
1974	0	0	0	4.76	1.27	0.443	0.031	0	0	0	0	0	0.538	1974
1975	0	0	0	2.28	1.31	0.482	0.101	0.204	0.181	0.171	0.205	0.053	0.413	1975
1976	0.028	0.023	0.029	9.09	2.82	0.840	0.245	0.041	0.008	0	0	0	1.08	1976
1977	0	0	0.013	0.026	0.082	0.015	0.007	0	0.001	0.001	0.001	0.001	0.010	1977
1978	0.001	0.001	0.054	0.763	0.044	0.001	0	0	0	0	0	0	0.071	1978
1979	0	0	0	4.83	1.45	0.774	0.281	0.054	0.002	0.001	0	0	0.613	1979
1980	0	0	0	0.144	0.007	0.003	0	0	0	0	0	0	0.013	1980
1981	0	0.001	0.078	0.022	0	0.004	0.001	0	0	0	0	0	0.008	1981
1982	0	0	0.036	0.804	0.044	0.001	0	0	0	0	0	0	0.081	1982
1984	0	0	0.002	0	0	0.015	0	0	0	0	0	0	0.001	1984
MEAN	0.002	0.002	0.132	2.11	0.581	0.293	0.110	0.028	0.013	0.014	0.020	0.004	0.327	MEAN

LOCATION - LAT 50 01 30 N DRAINAGE AREA, 1 180 km²
LONG 100 23 35 W REGULATED

OAK RIVER NEAR RIVERS - STATION NO. 05MG004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	2.04 OF MAR 28	0B ON MAR 1 *	---	1958
1960	---	13.3 ON A'R 13	0B ON MAR 1	---	1960
1961	---	0.585 ON APR 10	0B ON MAR 1	---	1961
1962	---	5.92 ON APR 19	0B ON MAR 1	---	1962
1963	---	8.71 ON JUN 10	0B ON MAR 1	---	1963
1964	---	5.07 ON APR 15	0B ON MAR 1	---	1964
1965	---	12.7 ON APR 15	0B ON MAR 1	---	1965
1966	---	4.84 B ON APR 2	0B ON MAR 1	---	1966
1967	12.7 AT 19:00 CST ON APR 14	11.6 ON APR 14	0B ON MAR 1	---	1967
1968	---	7.93 B ON MAR 27	0B ON MAR 1	---	1968
1969	---	35.1 A ON APR 12 *	0B ON JAN 1	21 100	1969
1970	3.08 AT 08:51 CST ON APR 29	8.01 ON APR 30	0B ON JAN 1	14 400	1970
1971	7.59 AT 13:15 CST ON JUN 15	8.37 ON JUN 15	0B ON JAN 1	12 700	1971
1972	12.1 AT 15:20 CST ON APR 15	10.3 ON APR 15	0B ON JAN 14	17 100	1972
1973	---	0.2758 ON MAR 13	0B ON JAN 1	320	1973
1974	---	18.3 ON APR 15	0B ON JAN 1	18 800	1974
1975	12.2 AT 01:00 CST ON APR 28	10.3 ON APR 28	0B ON JAN 1	13 000	1975
1976	---	23.4 B ON APR 10	0 ON SEP 17	34 300	1976
1977	0.515 AT 08:31 CST ON MAY 21	0.340 ON MAY 21	0B ON JAN 1	310	1977
1978	4.02 B AT 20:20 CST ON APR 8	3.09 B ON APR 8	0B ON FEB 28	2 250	1978
1979	41.0 AT 11:58 CST ON APR 21 *	33.7 ON APR 21	0B ON JAN 1	19 300	1979
1980	---	0.5878 ON APR 7	0B ON JAN 1	400	1980
1981	0.554 AT 11:07 CST ON MAR 19	0.299 ON MAR 19	0B ON JAN 1	281	1981
1982	4.37 AT 15:24 CST ON APR 14	2.84 ON APR 14	0B ON JAN 1	2 580	1982
1984	0.289 AT 11:09 CST ON JUN 24	0.183 ON JUN 24	0B ON JAN 1	48.2	1984
				10 300	MEAN

A - MANUAL GAUGE B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)

OCHRE RIVER AT OCHRE RIVER - STATION NO. 05LJ005

. MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	4.40	3.82	2.89	---	1912
1913	2.18	0.906	0.057	9.51	3.00	2.34	3.08	0.477	0.205	0.387	0.390	0.142	2.38	1913
1914	0.057	0	0.028	4.25	5.49	0.498	0.397	0.049	0.097	0.248	0.193	0.030	1.50	1914
1915	0	0	0.057	1.98	1.27	1.28	1.11	0.238	0.822	1.03	0.835	0.113	0.939	1915
1916	---	---	---	3.68	3.88	5.97	2.08	0.308	0.175	0.800	0.850	---	---	1916
1917	---	---	---	1.14	4.73	4.07	2.17	0.313R	0.287	0.309	0.483	---	---	1917
1918	---	---	1.56	3.10	3.35	1.54	0.718	0.533	0.183	0.388	0.878	---	1.42	1918
1919	---	---	---	---	1.82	0.343	0.826	0.087	0.222	0.387	---	---	---	1919
1920	---	---	---	---	---	8.32	1.41	0.382	0.097	0.145	0.278	---	---	1920
1921	---	---	---	---	---	5.77	1.81	---	---	---	---	---	---	1921
1922	---	---	---	---	10.3	8.44	1.82	1.28	1.05	0.428	---	---	---	1922
1923	---	---	---	---	---	10.1	7.35	1.73	0.507	0.173	0.427	---	---	1923
1924	---	---	---	---	---	9.83	3.33	1.81	0.841	0.215	1.82	---	---	1924
1925	---	---	---	---	7.81	2.90	18.8	3.87	2.33	1.71	2.38	---	---	1925
1926	---	---	---	---	---	1.70	1.21	0.487	0.217	0.842	2.75	---	---	1926
1927	---	---	---	---	---	13.0	4.32	3.78	2.08	0.798	0.880	---	---	1927
1928	---	---	---	---	---	2.58	8.34	2.02	0.801	0.230	0.333	---	---	1928
1929	---	---	---	---	---	2.07	1.77	0.438	0.098	0.094	0.174	---	---	1929
1930	---	---	---	---	---	3.57	0.988	0.476	0.078	0.078	---	---	---	1930
1948	---	---	---	---	---	7.28	0.880	2.83	1.48	0.388	0.284	---	---	1948
1949	---	---	---	---	---	2.17	2.42	3.82	0.707	0.248	0.717	---	---	1949
1950	---	---	---	---	2.40	14.8	4.88	4.10	0.600	0.587	0.732	---	---	1950
1951	---	---	---	---	8.82	4.84	1.67	0.858	0.584	0.988	1.80	---	---	1951
1952	---	---	0.031	8.62	1.78	0.762	0.337	0.200	1.77	0.720	0.381	---	1.53	1952
1953	---	---	---	3.63	11.7	14.4	4.07	1.57	1.42	1.22	0.889	---	---	1953
1954	---	---	---	2.72	5.85	8.59	3.51	0.714	4.31	2.85	1.10	---	---	1954
1955	---	---	---	8.78	7.80	10.4	1.82	0.149	0.188	0.275	---	---	---	1955
1956	---	---	0.378	2.25	7.93	8.37	5.82	0.582	0.477	0.621	---	---	3.31	1956
1957	---	---	0.471	10.2	4.37	3.34	0.723	0.449	0.832	0.382	---	---	2.55	1957
1958	---	---	0.362	3.38	1.38	0.891	1.27	0.138	0.888	0.325	---	---	1.00	1958
1959	---	---	0.423	3.54	5.22	1.80	0.850	0.107	0.448	1.40	---	---	1.73	1959
1960	---	---	0.159	8.23	9.82	1.74	0.318	0.273	0.143	0.378	---	---	2.82	1960
1961	---	---	0.024	1.12	1.54	0.041	0.021	0	0.008	0.388	---	---	0.383	1961
1962	---	---	0.032	1.17	1.70	1.40	0.205	0.181	0.328	0.382	0.311	---	0.888	1962
1963	---	---	0.828	6.85	3.88	4.00	1.18	0.137	0.710	0.249	---	---	2.18	1963
1964	---	---	0	4.61	3.14	0.388	0.098	0.033	0.014	0.187	---	---	1.05	1964
1965	---	---	0	2.67	7.31	3.96	1.17	0.778	5.18	1.39	---	---	2.75	1965
1966	---	---	1.82	5.80	9.77	2.01	1.26	1.07	0.353	0.390	---	---	2.82	1966
1967	---	---	0.236	3.48	10.3	1.15	0.232	0.173	0.020	0.254	---	---	1.89	1967
1968	---	---	0.401	2.38	2.11	1.10	2.31	2.26	1.13	0.797	---	---	1.56	1968
1969	---	---	0.281	5.04	2.21	9.80	5.19	0.413	0.512	0.784	---	---	2.97	1969
1970	---	---	0.224	2.67	18.8	2.58	1.85	0.211	0.841	0.888	---	---	3.47	1970
1971	---	---	0.187	7.32	1.85	12.0	2.14	0.831	0.254	1.59	---	---	3.21	1971
1972	---	---	0.520	7.34	4.28	0.831	0.225	0.207	0.138	0.198	---	---	1.88	1972
1973	---	---	0.513	0.622	0.817	2.04	0.385	0.875	1.48	1.59	---	---	1.08	1973
1974	---	---	0.014	10.2	15.1	2.30	0.598	0.284	0.818	1.35	---	---	3.80	1974
1975	---	---	0.212	2.88	4.75	4.18	0.884	4.32	19.8	4.18	---	---	5.15	1975
1976	---	---	0.818	13.0	2.42	8.81	0.885	0.258	0.108	0.300	---	---	3.23	1976
1977	---	---	0.285	1.13	1.28	0.898	3.75	0.742	3.44	1.88	---	---	1.83	1977
1978	---	---	0.488	5.82	2.33	1.24	0.844	0.188	0.888	0.917	---	---	1.53	1978
1979	---	---	0.400	5.87	14.2	2.88	0.903	0.228	0.293	0.398	---	---	3.11	1979
1980	---	---	0.227	3.08	0.585	0.197	0.308	1.14	1.03	1.04	---	---	0.840	1980
1981	---	---	0.408	2.33	2.67	2.62	0.304	0.378	0.354	0.678	---	---	1.21	1981
1982	---	---	0.038	5.51	2.18	0.705	0.301	0.210	0.177	1.51	---	---	1.32	1982
1983	---	---	0.118	8.48	4.51	2.21	1.57	0.175	0.310	0.192	---	---	1.83	1983
1984	---	---	0.543	1.70	4.19	2.81	0.378	0.030	0.148	0.892	---	---	1.31	1984
MEAN	0.748	0.302	0.350	4.89	5.36	3.89	1.52	0.898R	1.05	0.980	0.880	0.744	2.08	MEAN

LOCATION - LAT 51 03 55 N DRAINAGE AREA, 344 km²
LONG 99 46 44 W NATURAL FLOW

R - REVISED SINCE JAN 1980

OCHRE RIVER AT OCHRE RIVER - STATION NO. 05LJ005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	25.8 ON APR 14	0.0578 ON MAR 1	50 100	1913
1914	---	30.9 ON MAY 8	0.0288 ON MAR 1	31 900	1914
1915	---	5.01 ON APR 12	0.0578 ON MAR 1	19 800	1915
1916	---	44.7 ON JUN 24	---	---	1916
1917	---	15.2 ON JUN 25	---	---	1917
1918	---	15.4 ON MAY 25	0.130 ON AUG 31	30 100	1918
1919	---	---	---	---	1919
1920	---	---	---	---	1920
1921	---	---	---	---	1921
1922	---	22.4 ON MAY 18	---	---	1922
1923	---	58.1 ON MAY 2	---	---	1923
1924	---	14.3 ON APR 28	---	---	1924
1925	---	51.3 ON JUN 24	---	---	1925
1926	---	---	---	---	1926
1927	---	54.4 ON MAY 4	---	---	1927
1928	---	44.5 ON JUN 21	---	---	1928
1929	---	---	0.071 ON AUG 27	---	1929
1930	---	17.3 ON MAY 13	---	---	1930
1946	---	44.2 ON APR 25	---	---	1946
1948	---	26.0 ON JUL 22	---	---	1948
1950	---	58.0 ON MAY 14	---	---	1950
1951	---	37.8 ON APR 29	0 B ON APR 1 *	---	1951
1952	---	17.3 ON APR 18	0.0288 ON MAR 1	32 400	1952
1953	---	91.7 ON JUN 4	---	---	1953
1954	---	37.4 ON JUN 8	---	---	1954
1955	---	87.4 ON JUN 18	0 ON SEP 3	---	1955
1956	---	40.2 ON JUN 20	0.198 ON AUG 26	70 100	1956
1957	---	57.8 ON APR 25	0.170 ON AUG 31	53 800	1957
1958	---	5.888 ON APR 1	0 ON AUG 12	21 300	1958
1959	---	13.2 ON MAY 4	0.028 ON AUG 6	36 700	1959
1960	---	32.8 ON MAY 27	0.040 ON JUL 28	55 500	1960
1961	---	4.548 ON APR 21	0 B ON MAR 1	8 310	1961
1962	---	5.64 ON MAY 31	0 B ON MAR 1	14 200	1962
1963	---	20.7 ON APR 8	0 B ON MAR 1	46 300	1963
1964	---	17.5 ON APR 25	0 B ON MAR 1	22 200	1964
1965	---	24.1 ON JUN 3	0 B ON MAR 1	59 200	1965
1966	---	34.0 ON MAY 5	0.003 ON SEP 17	59 800	1966
1967	---	18.0 ON MAY 7	0.011 ON SEP 7	42 100	1967
1968	---	12.0 ON JUL 2	0.0858 ON MAR 1	33 100	1968
1969	---	74.2 ON JUN 27	0.108 ON SEP 19	83 000	1969
1970	---	53.1 ON MAY 8	0.085 ON AUG 24	73 500	1970
1971	---	85.2 ON JUN 10	0.118 ON SEP 25	68 000	1971
1972	---	20.8 ON APR 26	0.082 ON SEP 11	35 800	1972
1973	---	11.3 ON JUN 21	0.031 ON JUL 24	22 400	1973
1974	---	47.0 ON APR 27	0.0148 ON MAR 1	80 600	1974
1975	328 AT 15:13 CST ON SEP 19 *	211 ON SEP 19 *	0.113 ON JUL 30	109 000	1975
1976	---	88.0 ON JUN 14	0.040 ON SEP 12	68 400	1976
1977	---	40.5 ON JUL 12	0.071 ON JUN 11	34 500	1977
1978	---	15.5 A ON APR 27	0.102 ON AUG 13	32 300	1978
1979	48.5 AT 13:35 CST ON MAY 17	45.3 ON MAY 17	0.138 ON AUG 31	65 800	1979
1980	8.108 AT 09:22 CST ON APR 18	7.17 ON APR 21	0.087 ON JUN 28	19 900	1980
1981	12.5 AT 14:40 CST ON JUN 18	10.0 ON JUN 18	0.088 ON JUL 14	25 600	1981
1982	---	16.8 B ON APR 15	0 B ON MAR 1	27 900	1982
1983	32.3 B AT 03:00 CST ON APR 25	27.5 ON APR 25	0.052A ON OCT 19	40 900	1983
1984	16.0 AT 20:37 CST ON JUN 23	13.3 ON JUN 24	0.007 ON SEP 4	27 700	1984
				43 600	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ODEI RIVER NEAR THOMPSON - STATION NO. 05TG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	10.0	8.90	4.82	8.11	65.3	101	51.7	35.5	42.9	48.1	25.4	14.3	34 8	1979
1980	8.82	3.52	2.80	27.2	49.2	34.9	37.5	85.6	102	79.8	31.7	22 5	38 7	1980
1981	17.6	12.2	8.53	8.32	103	49.9	28.4	24.8	13.1	24.8	17.2	4 83	28 1	1981
1982	1.76	1.63	1.58	12.8	186	77.8	53.1	83.7	58.3	80.5	33.1	24.5	48 3	1982
1983	19.0	13.9	8.34	7.60	118	97.5	54.9	45.9	88.8	80.0	36.4	18 1	45 8	1983
1984	9.83	6.31	4.18	57.9	67.1	58.5	23.9	15.2	18.7	21.6	11.9	5 94	28 5	1984
MEAN	10.8	7.24	5.04	20.0	103	89.8	41.8	41.8	50.3	49.2	25.8	15.0	38.7	MEAN

LOCATION - LAT 55 59 45 N LONG 97 21 23 W DRAINAGE AREA, 6 450 km^2 NATURAL FLOW

ODEI RIVER NEAR THOMPSON - STATION NO. 05TG003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	135A AT 17:55 CST ON JUN 4	134A ON JUN 4	3.50E ON APR 13	1 090 000	1979
1980	143 AT 22:45 CST ON AUG 28	142 ON AUG 28	2.88B ON MAR 25	1 220 000	1980
1981	---	228E ON MAY 18	2.30B ON DEC 31	821 000	1981
1982	---	352E ON MAY 3 *	1.52E ON APR 12 *	1 520 000	1982
1983	201 AT 12:00 CST ON MAY 31 *	201 ON MAY 31	4.54B ON APR 15	1 440 000	1983
1984	170 AT 21:15 CST ON APR 24	167 ON APR 24	3.53B ON APR 3	838 000	1984
				1 150 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

OMANDS CREEK NEAR BROOKSIDE CEMETERY - STATION NO. 05MJ008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.004	1.25	0.258	0.025	0.010	0	0	0	---	---	0.180	1978
1983	---	---	0.129	1.08	0	0.702	0.077	0.002	0	0	---	---	0.244	1983
1984	---	---	0.024	0.058	0.005	0.072	0.005	0	0.004	0.011	---	---	0.022	1984
MEAN	---	---	0.052	0.788	0.087	0.285	0.031	0.001	0.001	0.004	---	---	0.152	MEAN

LOCATION - LAT 49 55 00 N, LONG 97 12 59 W
DRAINAGE AREA, 75.1 km^2
NATURAL FLOW

OMANDS CREEK NEAR BROOKSIDE CEMETERY - STATION NO. 05MJ008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	---	4.67 B ON APR 8	0 ON MAY 3 *	4 030	1978
1983	10.1 AT 12:00 CST ON JUN 22 *	7.41 ON JUN 22 *	0B ON MAR 1	5 170	1983
1984	1.19 AT 19:55 CST ON JUN 21	0.382B ON APR 2	0B ON MAR 1	469	1984
				3 220	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

OMANDS CREEK NEAR METRO ROUTE 90 - STATION NO. 05MJ007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.027	1.37	0.340	0.023	0.004	0	0.011	0	---	---	0.219	1978
1983	---	---	0.221	1.13	0.001	0.718	0.025	0.008	0.001	0.005	---	---	0.280	1983
1984	---	---	0.043	0.070	0.005	0.210	0.007	0.002	0.009	0.025	---	---	0.048	1984
MEAN	---	---	0.097	0.857	0.115	0.318	0.012	0.003	0.007	0.010	---	---	0.175	MEAN

LOCATION - LAT 49 54 43 N, LONG 97 13 20 W
DRAINAGE AREA, 80.5 km^2
NATURAL FLOW

OMANDS CREEK NEAR METRO ROUTE 90 - STATION NO. 05MJ007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	5.89 AT 00:59 CST ON MAY 28	4.70 ON MAY 28	0B ON MAR 1 *	4 830	1978
1983	9.85 AT 12:51 CST ON JUN 22 *	5.52 ON JUN 22 *	0B ON MAR 1	5 500	1983
1984	3.16 AT 22:35 CST ON JUN 21	1.38 ON JUN 22	0B ON MAR 1	972	1984
				3 700	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

OMINAWIN CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB011

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	---	1 180	1 120	1 050	---	---	---	---	1971
1972	764	785	826	925	1 180	1 250	1 180	1 110	1 020	950	890	707	980	1972
1973	632	825	886	768	---	---	---	---	---	---	---	---	---	1973
MEAN	698	695	786	847	1 180	1 250	1 170	1 120	1 040	950	890	707	980	MEAN

LOCATION - LAT 64 25 30 N, LONG 98 03 00 W
NATURAL FLOW

OMINAWIN CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB011

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	1 300 AT 05:13 CST ON JUN 13 *	1 280 ON MAY 21 *	8488 ON DEC 31 *	30 300 000	1972
1973	---	---	---	---	1973
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		30 300 000	MEAN

OVERFLOWING RIVER AT OVERFLOWING RIVER - STATION NO. 05LD001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	---	---	---	---	---	---	---	---	---	1954
1955	---	---	---	---	71.0 R	22.2 R	12.0 R	8.04 R	2.89 R	2.77 R	---	---	---	1955
1956	---	---	0.054R	11.1	74.0	57.1	30.9	17.9	9.11	6.86	---	---	25.9 R	1956
1957	---	---	0	13.7	45.2	16.7	4.78	0.813	1.70	1.19	---	---	10.5	1957
1958	---	---	0.005	21.3	13.5	4.40	6.92	1.71	3.04	9.87	---	---	7.58	1958
1959	---	---	0.576	14.7	18.2	10.7	16.9	9.21	24.5	17.9	---	---	14.2	1959
1960	---	---	0.007	36.5	52.0	30.9	11.5	3.78	1.33	0.733	---	---	18.8	1960
1961	---	---	0.062	14.5	11.9	3.20	0.107	0.020	0.015	0.014	---	---	3.70	1961
1962	---	---	0	3.98	13.1	5.66	0.873	0.125	0.719	0.922	---	---	3.14	1962
1963	---	---	0	7.04	4.50	4.53	8.51	1.53	2.67	1.85	---	---	3.56	1963
1964	---	---	0.094	7.99	27.4	4.21	8.01	9.40	17.8	13.2	---	---	11.0	1964
1965	---	---	0.076	17.4	39.3	55.6	25.9	9.52	13.1	17.6	---	---	22.2	1965
1966	---	---	0.316	14.5	16.3	23.2	34.5	17.0	8.22	6.87 R	---	---	15.1 R	1966
1967	---	---	0.577	0.881	52.5	27.3	5.25	1.96	1.08	3.12	---	---	11.5	1967
1968	---	---	0.697	8.29	10.1	36.2	43.5	14.5	10.5	7.79	---	---	15.4	1968
1969	---	---	0.323	25.3	17.5	6.00	0.851	0.287	0.273	11.1	---	---	7.65	1969
1970	---	---	0.128	4.85	35.7	22.6	68.9	20.1	6.01	11.3	---	---	21.1	1970
1971	---	---	0.232	30.7	24.5	8.60	2.08	2.12	0.517	4.41	---	---	8.85	1971
1972	---	---	0.093	13.0	47.8	14.0	4.22	1.50	0.544	0.817	---	---	10.3	1972
1973	---	---	0	8.80	18.5	37.3	21.1	4.56	3.98	8.82	---	---	12.2	1973
1974	---	---	0.500	21.4	70.3	42.6	7.40	2.63	5.01	10.1	---	---	18.9	1974
1975	---	---	0.713	9.75	41.8	43.4	12.3	7.46	9.15	12.3	---	---	17.1	1975
1976	---	---	0.554	8.65	5.53	21.3	25.2	9.18	3.25	1.35	---	---	8.35	1976
1977	---	---	0	4.84	7.41	3.74	3.78	15.0	18.4	13.8	---	---	8.80	1977
1978	---	---	0.718	15.3	36.5	13.7	6.40	8.35	10.7	15.0	---	---	13.6	1978
1979	---	---	0 R	17.7 R	82.3 R	61.9 R	9.15 R	2.15 R	1.64 R	2.31 R	---	---	18.3 R	1979
1980	---	---	0.005	4.85	2.60	0.410	0.770	1.14	1.38	2.91	---	---	1.74	1980
1981	---	---	0.349	6.83	8.12	2.79	2.43	2.03	0.579	15.6	---	---	4.89	1981
1982	---	---	0.024	7.85	11.6	16.8	12.8	4.48	3.08	8.08	---	---	8.30	1982
1983	---	---	0.108	16.1	43.7	41.7	36.5	11.0	6.97	7.22	---	---	20.6	1983
1984	---	---	0.241	30.5	53.4	43.2	7.48	0.731	0.491	3.74	---	---	17.4	1984
MEAN	---	---	0.222R	13.6 R	32.0 R	26.0 R	15.0 R	6.86 R	6.71 R	7.22 R	---	---	12.5	MEAN

LOCATION - LAT 53 09 15 N DRAINAGE AREA, 3 550 km^2
LONG 101 06 30 W NATURAL FLOW

R - REVISED SINCE JAN 1980

OVERFLOWING RIVER AT OVERFLOWING RIVER - STATION NO. 05LD001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	---	---	---	1954
1955	---	---	---	---	1955
1956	---	88.9 ON MAY 15	0.0289 ON APR 1	547 000R	1956
1957	---	55.2 ON APR 29	0 B ON MAR 1 *	222 000	1957
1958	---	36.0 ON APR 7	0 B ON MAR 1	140 000	1958
1959	---	38.0 ON JUL 1	0 B ON MAR 1	300 000	1959
1960	---	119 B ON APR 22 *	0 B ON MAR 1	355 000	1960
1961	---	27.2 ON APR 26	0.014 ON SEP 3	78 400	1961
1962	---	26.3 ON APR 29	0 B ON MAR 1	86 800	1962
1963	---	19.2 B ON APR 18	0 B ON MAR 1	75 400	1963
1964	---	68.8 ON MAY 12	0.0859 ON MAR 1	233 000	1964
1965	---	80.3 ON JUN 10	0.0788 ON MAR 1	470 000	1965
1966	---	47.0 ON JUL 21	0.2868 ON MAR 1	320 000R	1966
1967	---	78.2 ON MAY 12	0.4028 ON APR 16	248 000	1967
1968	---	55.8 ON JUN 1	0.0258 ON MAR 21	348 000	1968
1969	---	63.5 B ON APR 14	0.037E ON SEP 15	182 000	1969
1970	---	90.9 ON JUL 18	0.1068 ON APR 7	448 000	1970
1971	---	78.7 B ON APR 19	0.096A ON SEP 18	187 000	1971
1972	---	86.9 E ON APR 29	0.0718 ON MAR 1	317 000	1972
1973	47.0 AT 02:31 CST ON JUN 22	47.0 ON JUN 22	0 B ON MAR 1	258 000	1973
1974	85.8 AT 00:11 CST ON APR 30 *	85.5 ON APR 29	0.3989 ON MAR 29	422 000	1974
1975	55.2 AT 10:22 CST ON JUN 10	54.7 ON JUN 11	0.4538 ON APR 8	381 000	1975
1976	---	39.9 ON JUN 29	0.9443 ON MAR 1	188 000	1976
1977	24.7 AT 12:43 CST ON SEP 18	24.6 ON SEP 18	0 B ON MAR 1	180 000	1977
1978	68.1 AT 04:18 CST ON MAY 1	68.5 ON MAY 1	0.8918 ON MAR 1	288 000	1978
1979	73.8R AT 18:00 CST ON APR 29	73.6 R ON APR 29	0 RB ON MAR 1	387 000R	1979
1980	---	8.818 ON APR 17	0 E ON MAR 1	39 800	1980
1981	28.7 AT 23:58 CST ON OCT 31	28.1 ON OCT 31	0 B ON MAR 1	108 000	1981
1982	27.1 AT 20:12 CST ON JUN 1	26.8 ON JUN 2	0.0178 ON MAR 28	178 000	1982
1983	---	68.6 B ON APR 24	0.0188 ON MAR 10	437 000	1983
1984	63.7 AT 18:50 CST ON MAY 24	63.0 ON MAY 25	0.0128 ON MAR 21	388 000	1984
	A - MANUAL GAUGE (SEE REFERENCE INDEX)	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980	284 000R	MEAN

OXTAIL CREEK NEAR CYPRESS RIVER - STATION NO. 05MH013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1975	---	---	0	0.824	1.02	0.170	0.004	0	0	0	---	---	0.251	1975
1976	---	---	0	8.77	0.594	0.055	0.022	0	0	0	---	---	1.28	1976
1977	---	---	0	0	0.071	0.002	0	0	0	0	---	---	0.009	1977
1978	---	---	0	0	0.071	0.002	0	0	0	0	---	---	0.205	1978
1979	---	---	0.014	1.32	0.213	0.051	0.021	0	0	0	---	---	0.857	1979
	---	---	0	5.22	2.27	0.243	0.014	0	0	0	---	---	0.035	1980
1980	---	---	0	0.230	0.056	0	0	0	0	0	---	---	0.034	1981
1981	---	---	0.076	0.013	0.027	0.026	0.010	0.038	0.050	0.033	---	---	0.198	1982
1982	---	---	0.124	1.19	0.171	0.073	0.022	0.004	0	0	---	---	0.372	1983
1983	---	---	0.168	2.48	0.257	0.082	0.009	0	0	0	---	---	0.050	1984
1984	---	---	0.095	0.078	0.144	0.068	0.017	0	0	0.001	---	---	0.339	MEAN
MEAN	---	---	0.050	2.11	0.482	0.083	0.012	0.004	0.005	0.003	---	---		

LOCATION - LAT 49 28 40 N DRAINAGE AREA, 435 km²
LONG 99 09 20 W NATURAL FLOW

REMARKS - DAILY DISCHARGES PRIOR TO 1975 HAVE NOT BEEN PUBLISHED

OXTAIL CREEK NEAR CYPRESS RIVER - STATION NO. 05MH013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1975	---	3.40 ON MAY 3	0.0 ON MAR 1 *	5 320	1975
1976	---	26.0 B ON APR 8 *	0.0 ON MAR 1	27 100	1976
1977	---	0.258 ON MAY 21	0.0 ON MAR 1	197	1977
1978	---	3.99 B ON APR 7	0.0 ON MAR 1	4 330	1978
1979	---	26.0 ON APR 22	0.0 ON MAR 1	20 200	1979
1980	0.855 AT 00:00 CST ON APR 7	0.7488 ON APR 6	0.0 ON MAR 1	745	1980
1981	0.380 AT 12:05 CST ON MAR 16	0.3268 ON MAR 16	0.0 ON MAR 4	725	1981
1982	---	2.06 B ON APR 16	0.0 ON MAR 1	4 150	1982
1983	8.20 B AT 17:55 CST ON APR 5 *	7.12 B ON APR 5	0.0 ON MAR 1	7 870	1983
1984	---	0.7648 ON MAR 25	0.0 ON MAR 1	1 070	1984
				7 170	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PACKHORSE CREEK NEAR MCCREARY - STATION NO. 05LJ034

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	0.078	0.028	0.023	0.012	---	---	---	---	1960
1961	---	---	---	---	0.254	0.017	0.041	0.017	0.084	---	---	---	---	1961
1962	---	---	---	---	---	0.023	0.005	0.011	0.008	---	---	---	---	1962
1963	---	---	---	---	---	0.308	0.028	0.018	0.018	---	---	---	---	1963
1964	---	---	---	---	0.103	0.031	0.011	0.009	0.011	---	---	---	---	1964
1965	---	---	---	0.086	0.295	0.103	0.043	0.030	0.265	0.033	---	---	0.123	1965
1966	---	---	---	0.158	0.247	0.085	0.032	0.085	0.017	0.031	---	---	0.094	1966
1967	---	---	---	0.240	0.380	0.070	0.026	0.021	0.018	0.037	---	---	0.113	1967
1968	---	---	---	0.116	0.115	0.102	0.118	0.128	0.048	0.042	---	---	0.095	1968
1969	---	---	---	0.294	0.158	0.278	0.262	0.033	0.028	0.015	---	---	0.155	1969
1970	---	---	---	0.067	0.833	0.113	0.051	0.034	0.048	0.052	---	---	0.148	1970
1971	---	---	---	---	0.062	0.358	0.058	0.022	0.035	---	---	---	---	1971
1972	---	---	---	0.295	0.178	0.048	0.018	0.015	0.014	---	---	---	---	1972
1973	---	---	---	0.048	0.081	0.120	0.032	0.039	0.078	0.079	---	---	0.088	1973
1974	---	---	---	0.285	0.353	0.103	0.028	0.021	0.018	0.011	---	---	0.118	1974
1975	---	---	---	---	0.308	0.135	0.028	0.089	---	---	---	---	---	1975
MEAN	---	---	---	0.178	0.237	0.123	0.053	0.038	0.047	0.039	---	---	0.114	MEAN

LOCATION - LAT 50 43 00 N DRAINAGE AREA, 8.07 km² DATA CONTRIBUTED BY -
LONG 99 35 00 W NATURAL FLOW MANITOBA WATER RESOURCES BRANCH

PACKHORSE CREEK NEAR MCCREARY - STATION NO. 05LJ034

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1960	1.42 AT 14:00 CST ON MAY 26	1.30 ON MAY 26	0 ON SEP 16 *	---	1960
1961	---	---	0 ON JUN 7	---	1961
1962	5.95 AT 22:30 CST ON MAY 29	2.45 ON MAY 30	0 ON JUN 11	---	1962
1963	3.46 AT 05:30 CST ON JUN 10	1.39 ON JUN 10	---	---	1963
1964	---	---	---	---	1964
1965	1.93 AT 17:40 CST ON SEP 4	1.47 ON SEP 17	0 0 ON APR 1	2 280	1965
1966	2.42 AT 03:30 CST ON AUG 7	1.30 ON AUG 7	0.011 ON SEP 22	1 740	1966
1967	1.18 AT 18:30 CST ON MAY 14	0.937 ON MAY 7	0.0038 ON APR 1	2 090	1967
1968	1.53 AT 14:30 CST ON JUL 7	0.8648 ON MAY 8	0.020 ON JUL 28	1 770	1968
1969	4.87 AT 03:30 CST ON JUN 27	2.77 ON JUN 27	0.011E ON OCT 24	2 880	1969
1970	3.94 AT 17:15 CST ON MAY 7	3.15 ON MAY 7	0.018 ON AUG 26	2 710	1970
1971	---	3.48 ON JUN 6	---	---	1971
1972	---	1.61 B ON APR 28	---	---	1972
1973	1.28 AT 13:00 CST ON JUN 20	0.821 ON JUN 20	0.001 ON JUL 23	1 260	1973
1974	2.57 AT 15:00 CST ON MAY 11	1.91 ON MAY 11	0.001 ON OCT 6	2 180	1974
1975	13.6 AT 18:00 CST ON SEP 16 *	8.78 ON SEP 16 *	---	---	1975
				2 110	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

PANSY DRAIN NEAR SARTO - STATION NO. 05OE014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0	0.113	0.018	0.001	---	---	---	---	---	---	0.033	1978
1979	---	---	0	0.264	0.232	0.133	---	---	---	---	---	---	0.154	1979
1980	---	---	0	0.031	0	0	---	---	---	---	---	---	0.008	1980
1981	---	---	0.001	0	0.003	0	---	---	---	---	---	---	0.001	1981
1982	---	---	0.003	0.141	0.087	0.117	---	---	---	---	---	---	0.081	1982
1983	---	---	0.337	0.940	0.053	0.014	---	---	---	---	---	---	0.333	1983
1984	---	---	0.074	0.010	0.003	0.029	---	---	---	---	---	---	0.029	1984
MEAN	---	---	0.055	0.213	0.084	0.042	---	---	---	---	---	---	0.081	MEAN

LOCATION - LAT 48 23 05 N DRAINAGE AREA, 38.9 km²
LONG 96 43 53 W NATURAL FLOW

PANSY DRAIN NEAR SARTO - STATION NO. 05OE014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1978	---	0.521 ON APR 9	0B ON MAR 1 *	343	1978
1979	0.818 AT 14:34 CST ON APR 25	0.807 ON APR 25	0B ON MAR 1	1 820	1979
1980	0.230 AT 11:15 CST ON APR 7	0.1338 ON APR 7	0B ON MAR 1	80.4	1980
1981	0.018 AT 19:05 CST ON MAY 29	0.015 ON MAY 30	0B ON MAR 1	11.0	1981
1982	0.586 AT 18:20 CST ON JUN 10	0.554 ON JUN 10	0B ON MAR 1	858	1982
1983	2.52 B AT 11:26 CST ON APR 5 *	2.12 B ON APR 5 *	0B ON MAR 1	3 520	1983
1984	---	1.05 B ON MAR 26	0B ON MAR 1	307	1984
				883	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PELICAN CREEK NEAR BIRNIE - STATION NO. 05LL027

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	0.201	0.228	0.051	0.005	0	0	0	---	---	0.061	1974
1975	---	---	0	0.123	0.110	0.078	0.019	0.144	0.242	0.071	---	---	0.098	1975
1976	---	---	0.010	0.328	0.088	0.040	0.013	0	0	0	---	---	0.057	1976
1977	---	---	0	0.010	0.008	0.004	0.002	0	0	0.003	---	---	0.003	1977
1978	---	---	0	0.110	0.081	0.013	0.002	0	0	0.002	---	---	0.023	1978
1979	---	---	0	0.170	0.402	0.088	0.006	0	0	0	---	---	0.083	1979
1980	---	---	0	0.039	0.006	0.001	0	0.047	0.013	0.011	---	---	0.014	1980
1981	---	0.003	0.011	0.050	0.018	0.015	0.001	0	0	0.005	---	---	0.012	1981
1982	---	---	0	0.098	0.067	0.018	0.018	0.015	0.002	0.011	---	---	0.028	1982
1983	---	---	0	0.228	0.128	0.056	0.104	0.004	0	0	---	---	0.085	1983
1984	---	---	0.003	0.022	0.022	0.038	0.010	0.001	0	0.019	---	---	0.014	1984
MEAN	---	0.003	0.002	0.125	0.103	0.037	0.018	0.019	0.023	0.011	---	---	0.042	MEAN

LOCATION - LAT 50 28 35 N DRAINAGE AREA, 8.07 km²
LONG 99 29 05 W NATURAL FLOW

PELICAN CREEK NEAR BIRNIE - STATION NO. 05LL027

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1974	---	0.806 ON APR 26	0B ON MAR 1 *	1 280	1974
1975	2.85 AT 09:20 CST ON SEP 19 *	1.71 ON SEP 19 *	0B ON MAR 1	2 070	1975
1976	---	0.793 ON APR 17	0 ON JUL 27	1 200	1976
1977	---	0.040 ON MAY 5	0B ON MAR 1	88.7	1977
1978	---	0.249 ON APR 23	0B ON MAR 1	496	1978
1979	---	1.51 A ON MAY 16	0B ON MAR 1	1 770	1979
1980	0.594 AT 07:48 CST ON AUG 21	0.419 ON AUG 21	0B ON MAR 1	306	1980
1981	0.135 AT 16:27 CST ON APR 4	0.118 ON APR 3	0 ON JUL 29	264	1981
1982	---	0.3778 ON APR 19	0B ON MAR 1	801	1982
1983	1.92 AT 20:48 CST ON APR 23	0.884 ON APR 24	0B ON MAR 1	1 370	1983
1984	0.745 AT 22:33 CST ON JUN 22	0.293 ON JUN 23	0B ON MAR 1	298	1984
				884	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER ABOVE LORNE LAKE - STATION NO. 05DA010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0.028	1.83	0.065	2.56	0.084	0.789	0.073	0.071	---	---	0.869	1962
1963	---	---	0.329	0.898	0.431	0.984	0.121	0.030	0.017	0.025	---	---	0.383	1963
1964	---	---	0	2.18	0.942	0.380	0.331	0.075	0.089	0.113	---	---	0.507	1964
1965	---	---	0.018	4.19	1.88	0.883	0.548	0.286	0.095	0.057	---	---	0.983	1965
1966	---	---	1.15	1.04	1.18	0.276	0.517	0.057	0.008	0.007	---	---	0.530	1966
1967	---	---	0.052	1.48	0.952	0.204	0.028	0.005	0.002	0.008	---	---	0.339	1967
1968	---	---	0.293	0.356	0.246	0.048	0.035	0.585	1.43	0.240	---	---	0.401	1968
1969	---	---	0	11.7	0.734	0.129	0.806	0.089	0.017	0.027	---	---	1.85	1969
1970	---	---	0	3.33	3.45	0.584	0.110	0.027	0.017	0.028	---	---	0.945	1970
1971	---	---	0	2.08	0.580	0.756	0.747	0.040	0.024	0.334	---	---	0.588	1971
1972	---	---	3.48	4.49	1.26	2.56	0.428	1.07	0.143	0.103	---	---	1.89	1972
1973	---	---	0.573	0.270	0.855	0.941	0.384	0.203	0.242	0.232	---	---	0.480	1973
1974	---	---	0.043	13.1	8.33	0.988	0.108	0.044	0.023	0.031	---	---	2.55	1974
1975	---	---	0.006	9.43	3.77	1.10	0.206	0.045	0.290	0.464	---	---	1.89	1975
1976	---	---	0.093	13.1	0.842	0.200	0.038	0.009	0.004	0.004	---	---	1.76	1976
1977	---	---	0.130	0.254	0.521	0.078	0.086	0.018	0	0.001	---	---	0.137	1977
1978	---	---	0.036	2.18	0.801	0.279	0.218	0.130	0.075	0.024	---	---	0.480	1978
1979	---	---	0	7.33	2.14	0.586	0.037	0.010	0.002	0.001	---	---	1.25	1979
1980	---	---	0.003	1.41	0.098	0.018	0.005	0.111	0.078	0.218	---	---	0.238	1980
1981	---	0.333	0.354	0.220	7.248	0.230	0.120	0.103	0.054	0.052	---	---	0.173	1981
1982	---	---	0.842	4.86	0.711	0.505	0.071	0.007	0.003	0.085	---	---	0.828	1982
1983	---	---	0.824	2.75	0.857	0.173	0.030	0.002	0.001	0.001	---	---	0.550	1983
1984	---	---	0.518	0.675	0.762	0.058	0.011	0.002	0	0.001	---	---	0.283	1984
MEAN	---	0.333	0.386	3.88	1.28	0.932	0.221	0.181	0.117	0.083	---	---	0.838	MEAN

LOCATION - LAT 49 15 50 N DRAINAGE AREA, 544 km²
LONG 98 27 44 W REGULATED

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 3.05 AND 0.007 m³/s OCCURRED IN FEB

PEMBINA RIVER ABOVE LORNE LAKE - STATION NO. 05DA010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1962	---	25.5 ON JUN 15	0 B ON MAR 1 *	14 500	1962
1963	---	5.66 ON JUN 6	0 B ON MAR 1	7 550	1963
1964	---	7.33 B ON APR 11	0 B ON MAR 1	10 700	1964
1965	---	17.4 B ON APR 13	0 B ON MAR 1	20 400	1965
1966	---	2.89 B ON MAR 25	0 ON MAR 1	11 200	1966
1967	---	3.17 ON APR 30	0 B ON MAR 1	7 180	1967
1968	---	4.42 ON AUG 27	0 B ON MAR 1	8 500	1968
1969	---	44.7 ON APR 12	0 B ON MAR 1	35 160	1969
1970	---	21.2 ON APR 28	0 B ON MAR 1	20 000	1970
1971	---	6.43 ON APR 11	0 B ON MAR 1	12 000	1971
1972	---	18.0 B ON MAR 17	0 B ON MAR 1	35 500	1972
1973	---	3.84 ON JUN 22	0 B ON MAR 1	8 740	1973
1974	---	52.1 ON APR 22 *	0.008 ON AUG 10	54 100	1974
1975	---	38.5 ON APR 29	0.0068 ON MAR 1	40 100	1975
1976	---	27.8 ON APR 7	0.003 ON SEP 19	37 200	1976
1977	---	2.12 ON MAY 20	0 ON AUG 29	2 890	1977
1978	---	5.78 B ON APR 6	0 ON AUG 1	8 740	1978
1979	---	45.3 B ON APR 20	0 B ON MAR 1	26 400	1979
1980	---	6.05 B ON APR 4	0.001 ON JUL 29	5 080	1980
1981	---	0.8598 ON MAR 18	0.008 ON AUG 22	3 650	1981
1982	14.3 AT 15:45 CST ON APR 14 *	12.1 ON APR 14	0 B ON MAR 1	18 800	1982
1983	8.338 AT 15:05 CST ON APR 2	6.68 B ON APR 2	0.001 ON AUG 11	11 600	1983
1984	---	3.20 B ON MAR 25	0 B ON MAR 1	5 380	1984
				17 700	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER ABOVE PEMBINA RIVER DIVERSION - STATION NO. 05DA012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	0.763	0.821	0.473	1.03	0.074	0.018	0.003	0	---	---	0.395	1963
1964	---	---	0.015	1.59	0.499	0.137	0.247	0.009	0.008	0	---	---	0.310	1964
1965	---	---	0	4.76	1.36	1.04	0.200	0.055	0.051	0.082	---	---	0.828	1965
1966	---	---	1.30	1.22	1.37	0.410	0.715	0.106	0.003	0	---	---	0.641	1966
1967	---	---	0.085	1.05	0.763	0.177	0.035	0.005	0	0	---	---	0.265	1967
1968	---	---	0.289	0.386	0.162	0.052	0.033	0.356	0.488	0.118	---	---	0.238	1968
1969	---	---	0	12.9	1.19	0.276	1.81	0.063	0.018	0.029	---	---	1.88	1969
1970	---	---	0	3.17	3.27	0.302	0.038	0.007	0	0.003	---	---	0.845	1970
1971	---	---	0	2.07	0.487	0.788	0.722	0.023	0.005	0.298	---	---	0.644	1971
1972	---	---	3.21	3.89	1.11	1.89	0.392	0.985	0.093	0.230	---	---	1.47	1972
1973	---	---	0.432	0.295	0.778	0.873	0.298	0.345	0.197	0.233	---	---	0.444	1973
1974	---	---	0.035	12.5	5.41	0.748	0.084	0.058	0.033	0.034	---	---	2.33	1974
1975	---	---	0.020	8.18	3.21	1.05	0.184	0.025	0.300	0.530	---	---	1.87	1975
1976	---	---	0.052	12.6	0.859	0.387	0.035	0.009	0.002	0	---	---	1.73	1976
MEAN	---	---	0.444	4.87	1.50	0.662	0.332	0.147	0.068	0.110	---	---	0.865	MEAN

LOCATION - LAT 49 16 10 N DRAINAGE AREA, 487 km²
LONG 99 34 40 W NATURAL FLOW

PEMBINA RIVER ABOVE PEMBINA RIVER DIVERSION - STATION NO. 05DA012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	5.13 ON JUN 6	0 B ON MAR 1 *	8 370	1963
1964	---	3.408 ON APR 12	0 B ON MAR 1	6 570	1964
1965	---	12.0 B ON APR 13	0 B ON MAR 1	18 600	1965
1966	---	3.008 ON MAR 22	0 ON MAR 1	13 600	1966
1967	---	2.56 ON MAY 4	0 B ON MAR 1	5 620	1967
1968	---	3.48 ON AUG 27	0 B ON MAR 1	4 980	1968
1969	---	58.3 ON APR 11 *	0 B ON MAR 1	41 800	1969
1970	---	20.7 ON APR 27	0 B ON MAR 1	17 900	1970
1971	---	7.938 ON APR 10	0 B ON MAR 1	11 500	1971
1972	---	14.6 B ON MAR 17	0 B ON MAR 1	31 100	1972
1973	---	4.67 ON JUN 21	0 B ON MAR 1	9 400	1973
1974	---	43.9 ON APR 17	0 ON AUG 1	49 400	1974
1975	---	46.2 ON APR 29	0.001 ON AUG 20	35 300	1975
1976	---	33.4 B ON APR 3	0 ON JUL 24	36 600	1976
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		20 800	MEAN

PEMBINA RIVER AT NECHE - STATION NO. 05DC004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1903	---	---	---	---	5.71	4.22	1.71	0.934	0.834	1.13	0.850	0.425	---	1903
1904	0.227	0.113	0.057	42.2	74.8	47.9	23.8	10.9	8.54	8.65	4.81	3.88	18.7	1904
1905	1.87	0.566	5.66	13.6	12.7	13.7	5.64	2.75	2.66	3.37	2.27	0.566	5.48	1905
1906	0.283	0.142	0.057	11.6	5.45	7.69	4.96	3.70	4.17	4.08	2.75	0.425	3.77	1906
1907	0.142	0.057	0.085	4.81	45.3	14.4	4.41	1.54	0.886	1.66	1.08	0.538	6.30	1907
1908	0.170	0.085	0.085	9.29	13.4	8.35	2.49	1.48	1.73	---	---	---	---	1908
1909	---	---	---	---	---	9.32	3.65	1.37	0.784	1.30	0.991	0.142	---	1909
1910	0.085	0.057	5.97	4.89	3.39	1.71	0.989	0.184	0.111	0.181	0.085	0.057	1.47	1910
1911	0.028	0.014	5.61	5.32	8.53	4.35	1.39	0.883	0.182	0.555	0.425	0.283	2.37	1911
1912	0.142	0.057	0.198	4.46	4.83	4.20	3.66	2.42	5.12	5.41	3.40	1.42	2.95	1912
1913	0.566	0.283	0.142	47.6	15.0	5.41	3.01	1.87	1.75	1.80	1.42	0.566	6.68	1913
1914	0.283	0.283	1.42	7.70	8.23	3.81	1.37	0.378	0.384	0.901	0.597	0.255	1.97	1914
1915	0.170	0.142	0.255	1.28	0.715	0.898	0.574	0.248	0.220	---	---	---	---	1915
1919	---	---	---	23.3	10.7	4.64	2.47	0.841	0.975	2.51	1.84	0.850	---	1919
1920	0.566	0.425	0.792	5.08	6.46	4.20	2.17	0.800	0.520	3.58	2.89	1.70	2.38	1920
1921	0.850	0.566	0.566	10.1	4.77	2.73	3.20	0.532	0.480	3.00	1.52	0.850	2.43	1921
1922	0.227	0.127	1.16	12.7	6.88	3.96	0.752	0.285	1.09	1.93	2.09	0.934	2.67	1922
1923	0.566	0.283	0.311	22.4	32.0	8.92	2.44	2.82	2.95	3.22	2.58	0.851	7.42	1923
1924	0.113	0.085	0.198	8.21	4.43	2.78	1.53	0.407	0.582	4.79	2.89	0.566	2.06	1924
1925	0.057	0.057	10.8	11.8	5.67	7.18	3.22	0.539	1.58	4.05	1.80	0.708	3.95	1925
1926	0.340	0.085	1.86	4.11	2.64	2.72	2.83	0.377	1.35	1.85	1.22	0.878	1.85	1926
1927	0.425	0.113	7.86	28.6	32.6	16.1	8.57	5.37	7.72	8.51	3.49	1.42	10.0	1927
1928	1.13	0.708	8.14	10.1	5.81	5.12	4.30	1.88	2.03	3.44	1.27	0.636	3.80	1928
1929	0.340	0.227	5.19	6.22	3.11	2.26	0.178	0.108	0.135	0.538	1.29	0.227	1.85	1929
1930	0.057	0.028	0.028	25.3	13.0	5.11	2.63	0.451	0.338	0.730	0.315	0.079	4.14	1930
1931	0.204	0.187	1.28	13.1	2.91	0.832	0.305	0.058	0.011	0.018	0.140	0.028	1.58	1931
1932	0.004	0.098	0.401	12.0	5.26	2.02	0.598	0.173	0.052	0.213	0.227	0.077	1.75	1932
1933	0	0	0.507	20.4	15.7	9.08	2.11	0.771	0.818	1.34	0.884	0.272	4.30	1933
1934	0.134	0.138	2.13	9.72	4.35	1.92	0.564	0.039	0.003	0.048	0.030	0.002	1.58	1934
1935	0	0	0.367	4.08	1.82	3.06	1.77	0.888	0.421	0.398	0.142	0.082	1.08	1935
1936	0.018	0.001	0	18.3	12.1	5.87	1.61	0.586	0.717	0.401	0.201	0.100	3.37	1936
1937	0.018	0	0	3.17	2.12	1.88	0.404	0.353	0.011	0.023	0.010	0.005	0.683	1937
1938	0	0	5.07	2.86	2.22	1.04	0.352	0.001	0	0	0	0	0.870	1938
1939	0	0	0	0.899	0.333	0.305	0.017	0	0	0	0	0	0.112	1939
1940	0	0	0	2.86	1.00	0.188	0	0.200	0	0	0	0	0.335	1940
1941	0	0	0	26.2	10.9	4.84	1.78	0.787	3.81	3.45	1.47	0.744	4.88	1941
1942	0.100	0.031	1.30	53.8	27.7	10.3	3.85	2.83	1.94	1.43	0.880	0.289	8.88	1942
1943	0.184	0.156	4.39	14.2	8.55	8.82	8.41	5.85	5.12	3.48	2.04	1.13	5.05	1943
1944	0.209	0.103	0.106	7.75	5.77	7.23	18.0	33.0	13.1	5.78	8.62	2.97	7.40	1944
1945	1.22	1.40	21.0	30.6	21.5	12.4	7.28	4.03	2.73	1.89	1.01	0.615	8.83	1945
1946	0.254	0.253	18.1	19.1	8.22	3.21	1.81	0.908	0.575	0.838	0.944	0.209	4.37	1946
1947	0.050	0.034	0.028	17.2	6.27	5.85	2.49	3.48	1.84	1.52	0.788	0.437	3.48	1947
1948	0.388	0.186	0.143	26.3	25.2	11.7	8.83	5.58	3.32	1.68	1.28	0.585	7.11	1948
1949	0.363	0.340	0.324	88.8	44.4	18.8	7.72	4.03	1.98	1.80	1.14	0.504	12.8	1949
1950	0.250	0.189	0.271	51.1	81.7	34.3	18.9	11.6	6.30	4.30	2.49	1.08	17.6	1950
1951	0.882	0.708	1.09	23.9	14.5	7.52	3.40	1.91	1.38	0.818	0.445	0.208	4.73	1951
1952	0.038	0.028	0.038	8.03	5.78	3.48	2.00	0.583	0.128	0.101	0.171	0.039	1.70	1952
1953	0.008	0.003	0.028	2.01	1.32	4.48	2.57	1.81	0.415	0.280	0.271	0.103	1.11	1953
1954	0.030	0.009	0.262	2.68	2.28	11.0	18.4	11.4	5.83	4.07	2.17	0.794	5.03	1954
1955	0.296	0.487	0.388	42.8	24.2	16.4	6.80	3.09	1.81	1.51	0.709	0.408	8.36	1955
1956	0.250	0.242	0.343	33.4	84.1	24.8	10.7	5.17	3.86	2.83	1.78	0.586	12.4	1956
1957	0.448	0.218	3.35	7.80	8.72	3.82	1.81	2.20	3.30	4.88	2.48	1.74	3.14	1957
1958	0.893	0.586	0.688	5.82	3.86	1.10	0.903	0.147	0.085	0.151	0.108	0.008	1.16	1958
1959	0.004	0.003	0.021	14.2	4.71	3.86	1.13	0.810	0.308	0.903	1.75	2.84	2.82	1959
1960	1.87	1.13	0.884	51.9	35.6	13.8	5.78	2.87	1.25	0.783	0.548	0.148	9.82	1960
1961	0.123	0.056	1.38	7.80	5.17	1.81	0.388	0.086	0.103	0.120	0.087	0.027	1.40	1961
1962	0.011	0.004	0.029	18.1	10.7	6.38	3.25	2.35	2.83	1.76	0.893	0.526	4.16	1962
1963	0.522	0.047	2.58	5.57	5.44	7.80	4.87	3.80	2.11	1.29	0.622	0.187	2.88	1963
1964	0.083	0.081	0.078	9.31	9.30	6.78	2.07	1.40	1.62	1.24	0.842	0.197	2.88	1964
1965	0.125	0.105	0.078	24.4	19.8	12.8	5.14	2.12	2.88	2.41	1.45	0.885	8.02	1965
1966	0.606	0.484	3.94	43.8	27.3	11.0	8.85	3.21	1.27	0.733	0.447	0.208	8.32	1966
1967	0.229	0.238	0.763	26.1	28.8	9.00	2.88	1.08	0.378	0.626	0.544	0.177	5.80	1967
1968	0.073	0.051	4.41	5.80	4.07	1.98	1.24	3.82	8.71	10.7	5.41	1.80	4.08	1968
1969	0.880	0.480	0.865	89.2	51.1	17.8	10.3	5.20	3.43	2.28	1.65	0.830	18.3	1969
1970	0.491	0.430	0.333	45.7	88.5	41.5	22.8	9.13	5.10	3.34	2.20	0.880	15.5	1970
1971	0.415	0.380	0.457	87.8	42.8	16.5	8.73	7.84	4.68	2.98	1.98	0.874	13.0	1971
1972	0.488	0.308	11.2	37.7	25.2	10.1	5.83	5.04	3.14	2.12	0.897	0.260	8.51	1972
1973	0.079	0.078	2.57	2.87	2.01	1.45	1.80	1.74	1.75	1.72	1.08	0.589	1.49	1973
1974	0.289	0.178	0.332	85.7	131	80.3	15.0	4.24	2.80	1.84	1.10	0.813	24.5	1974
1975	0.336	0.207	0.232	10.2	34.6	18.9	7.48	2.88	1.42	1.25	0.787	0.339	8.58	1975
1976	0.373	0.424	0.898	78.4	41.0	14.2	7.13	2.41	1.17	0.794	0.417	0.072	12.2	1976
1977	0.082	0.085	0.433	1.98	2.27	1.39	0.534	0.182	0.723	0.825	0.308	0.170	0.743	1977
1978	0.085	0.012	0.002	33.1	14.7	5.51	1.83	1.33	1.41	0.704	0.331	0.143	4.93	1978
1979	0.106	0.083	0.138	58.4	93.0	24.8	8.17	2.28	1.78	1.30	0.778	0.374	15.8	1979
1980	0.163	0.143	0.165	5.80	2.38	1.04	0.318	0.324	0.388	0.594	0.704	0.185	1.01	1980
1981	0.038	0.712	3.18	8.25	3.89	1.85	0.788	0.400	0.178	0.384	0.315	0.104	1.51	1981
1982	0.026	0.001	0.848	17.1	18.3	14.7	7.40	3.78	1.73	2.30	0.816	0.587	5.68	1982
1983	0.363	0.184	4.88	26.0	12.8	7.78	2.07	0.848	0.388	0.881	0.537	0.058	4.70	1983
1984	0.015	0	0.728	4.19	4.84	3.82	0.932	0.198	0.085	0.208	0.126	0.084	1.28	1984
MEAN	0.288	0.207	2.08	21.3	18.3	9.03	4.53	2.56	2.01	1.84	1.28	0.589	5.49	MEAN

LOCATION - LAT 48 59 20 N LONG 97 33 05 W

DRAINAGE AREA, S 470 km² REGULATED

INTERNATIONAL GAUGING STATION

REMARKS - FORMERLY PUBLISHED UNDER STA. NO. 05DC001

PEMBINA RIVER AT NECHE - STATION NO. 05DC004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1903	---	---	---	---	1903
1904	122 ON MAY 2	110 ON MAY 2	0.057E ON MAR 1	589 000	1904
1905	---	38.8 ON APR 5	0.588E ON FEB 1	172 000	1905
1906	22.7 R ON APR 4	11.8 E ON APR 1	0.057E ON MAR 1	119 000	1906
1907	---	82.0 ON MAY 14	0.057E ON FEB 1	198 000	1907
1908	28.2 R ON APR 10	18.7 ON MAY 11	---	---	1908
1909	---	---	---	---	1909
1910	19.4 R ON MAR 15	7.08 ON APR 20	0.057E ON FEB 1	46 300	1910
1911	25.5 R ON MAR 24	14.7 ON MAY 18	0.014E ON FEB 1	74 800	1911
1912	28.3 ON JUL 29	24.6 ON JUL 29	0.057E ON FEB 1	53 500	1912
1913	110 ON APR 7	109 ON APR 8	0.142E ON MAR 1	208 000	1913
1914	---	11.0 ON APR 18	0.170 ON SEP 11	62 100	1914
1915	5.10 ON APR 7	4.38 ON APR 7	---	---	1915
1919	---	58.8 ON APR 15	---	---	1919
1920	---	10.2 B ON APR 19	0.283B ON MAR 26	75 800	1920
1921	---	20.8 ON APR 13	0.127 ON SEP 23	78 800	1921
1922	---	36.8 ON APR 7	0.127B ON FEB 1	84 200	1922
1923	---	88.3 ON APR 20	0.283E ON FEB 1	234 000	1923
1924	---	19.1 ON APR 20	0.085E ON FEB 1	85 000	1924
1925	---	55.5 ON MAR 28	0.057E ON JAN 1	125 000	1925
1926	---	9.00 ON JUL 6	0.057E ON MAR 1	52 400	1926
1927	88.1 ON MAY 12	85.4 ON MAY 12	0.113B ON FEB 1	317 000	1927
1928	---	36.0 B ON MAR 25	0.566B ON DEC 18	120 000	1928
1929	---	21.2 B ON MAR 21	0.028 ON JUL 5	52 100	1929
1930	---	82.1 B ON APR 8	0.028B ON FEB 1	130 000	1930
1931	44.7 B ON APR 9	42.2 B ON APR 9	0.006 ON SEP 9	49 400	1931
1932	35.1 B ON APR 9	33.1 B ON APR 9	0 B ON FEB 1 *	55 200	1932
1933	---	33.4 ON MAY 28	0 E ON JAN 1	136 000	1933
1934	---	22.1 B ON APR 9	0 ON SEP 15	50 000	1934
1935	---	10.3 ON JUN 18	0 ON JAN 1	33 800	1935
1936	---	71.8 ON APR 15	0 ON FEB 10	107 000	1936
1937	6.71 ON JUN 8	6.03 ON APR 11	0 ON JAN 28	20 900	1937
1938	20.7 AT 02:00 CST ON MAR 20	17.8 ON MAR 19	0 E ON JAN 1	30 800	1938
1939	1.47B ON APR 4	1.42B ON APR 4	0 ON JAN 1	3 540	1939
1940	23.1 B AT 18:00 CST ON APR 20	20.7 B ON APR 20	0 E ON JAN 1	10 800	1940
1941	---	80.1 ON APR 14	0 E ON JAN 1	147 000	1941
1942	101 IN APR	97.1 ON APR 8	0.023B ON FEB 11	273 000	1942
1943	39.6 B ON MAR 27	31.1 B ON MAR 27	0.098B ON MAR 8	159 000	1943
1944	---	34.0 ON AUG 8	0.074B ON FEB 10	234 000	1944
1945	89.1 AT 19:00 CST ON MAR 29	88.0 ON MAR 29	0.311B ON DEC 30	279 000	1945
1946	---	58.6 B ON MAR 24	0.085B ON DEC 29	136 000	1946
1947	37.4 AT 10:00 CST ON APR 11	36.5 ON APR 11	0.017B ON FEB 2	110 000	1947
1948	107 AT 08:30 CST ON APR 21	102 ON APR 21	0.142B ON FEB 8	225 000	1948
1949	142 AT 15:00 CST ON APR 22	139 ON APR 22	0.256B ON DEC 29	393 000	1949
1950	303 B AT 09:30 CST ON APR 20 *	218 B ON APR 20	0.198B ON JAN 31	555 000	1950
1951	66.6 B AT 13:00 CST ON APR 7	55.2 B ON APR 7	0.057B ON DEC 29	149 000	1951
1952	---	14.2 B ON APR 3	0.008 ON DEC 31	53 700	1952
1953	7.08 ON JUN 10	6.74 ON JUN 11	0 ON MAR 10	34 900	1953
1954	24.0 AT 18:00 CST ON JUL 7	23.6 ON JUL 7	0.008B ON FEB 8	159 000	1954
1955	76.5 AT 18:00 CST ON APR 5	73.6 ON APR 5	0.227 ON JAN 21	284 000	1955
1956	147 AT 02:00 CST ON APR 27	136 ON APR 27	0.198 ON FEB 25	382 000	1956
1957	18.7 AT 22:30 CST ON MAR 27	17.0 ON MAR 27	0.142 ON MAR 11	98 900	1957
1958	12.5 AT 18:30 CST ON APR 7	10.5 ON APR 7	0.003B ON DEC 12	37 100	1958
1959	51.0 B AT 22:30 CST ON APR 5	48.1 B ON APR 5	0.003B ON JAN 7	79 400	1959
1960	114 B AT 10:00 CST ON APR 14	108 B ON APR 14	0 ON SEP 15	305 000	1960
1961	10.5 AT 21:00 CST ON APR 3	9.91 ON APR 3	0 ON AUG 29	44 100	1961
1962	103 B AT 14:30 CST ON APR 21	102 B ON APR 21	0 ON FEB 21	131 000	1962
1963	32.5 AT 00:20 CST ON JUL 28	24.5 ON JUL 28	0.003 ON MAR 5	90 800	1963
1964	30.6 B AT 16:30 CST ON APR 17	22.5 B ON APR 17	0.062B ON MAR 10	83 800	1964
1965	102 AT 00:00 CST ON APR 14	96.3 ON APR 14	0.054B ON MAR 29	190 000	1965
1966	122 B AT 10:00 CST ON APR 3	113 B ON APR 3	0.144B ON DEC 12	283 000	1966
1967	82.1 AT 13:00 CST ON APR 23	80.4 ON APR 23	0.068 ON DEC 26	188 000	1967
1968	20.8 AT 06:00 CST ON MAR 26	20.6 ON MAR 26	0.045 ON FEB 13	129 000	1968
1969	208 AT 13:45 CST ON APR 21	197 ON APR 22	0.340B ON JAN 28	481 000	1969
1970	200 AT 20:00 CST ON APR 27	180 ON APR 28	0.170B ON MAR 31	521 000	1970
1971	206 AT 12:30 CST ON APR 12	200 ON APR 12	0.340B ON FEB 19	410 000	1971
1972	72.2 AT 00:30 CST ON APR 15	66.0 B ON APR 15	0.113B ON DEC 21	269 000	1972
1973	8.34 ON MAR 27	6.08 ON MAR 27	0.078B ON JAN 5	46 900	1973
1974	282 AT 05:00 CST ON APR 28	262 ON APR 28 *	0.170B ON FEB 8	772 000	1974
1975	42.5 AT 03:00 CST ON MAY 18	42.2 ON MAY 18	0.153 ON MAR 14	208 000	1975
1976	126 AT 18:00 CST ON APR 19	124 ON APR 19	0.057B ON DEC 8	386 000	1976
1977	7.39 AT 09:00 CST ON MAY 21	6.83 ON MAY 21	0.057B ON JAN 1	23 400	1977
1978	---	95.7 B ON APR 11	0 E ON MAR 7	155 000	1978
1979	---	283 B ON APR 21	0.028B ON JAN 17	499 000	1979
1980	12.3 AT 07:00 CST ON APR 7	12.1 ON APR 7	0.057B ON DEC 25	31 800	1980
1981	8.07 AT 12:00 CST ON APR 1	7.38 ON APR 1	0.010B ON FEB 14	47 800	1981
1982	---	40.5 ON JUN 8	0 E ON FEB 8	178 000	1982
1983	---	45.3 B ON APR 9	0.014B ON DEC 31	148 000	1983
1984	8.83 AT 18:00 CST ON APR 7	7.08 ON APR 3	0 E ON JAN 28	39 700	1984
				173 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

PEMBINA RIVER BELOW CRYSTAL CREEK - STATION NO. 05DB023

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	4.00	3.44	4.62	2.73	0.844	1.02	---	---	---	---	1962
1963	---	---	0.381	3.44	2.55	5.71	1.67	0.850	0.150	0.111	0.082	0.011	---	1963
1964	0	0	0.010	7.76	5.27	0.693	0.883	0.077	0.028	0.120	0.040	0.024	1.24	1964
1965	0.010	0.005	0.036	11.1	13.4	5.72	0.788	1.38	0.888	0.907	0.701	0.461	2.85	1965
1966	0.217	0	4.88	11.7	8.87	2.80	1.88	0.201	0.083	0.084	0.038	0.015	2.41	1966
1967	0.021	0.032	0.300	7.88	8.41	1.27	0.302	0.220	0.020	0.008	0.020	0.005	1.88	1967
1968	0	0	1.17	0.170	0.148	0.354	0.422	3.57	12.8	4.85	0.355	0.130	2.00	1968
1969	0.182	0.485	1.15	80.2	23.1	7.27	3.31	3.01	0.813	0.285	0.188	0.085	9.84	1969
1970	0.070	0.187	0.405	18.3	37.9	20.7	8.80	2.54	0.884	0.339	0.192	0.101	7.55	1970
1971	0.053	0.035	0.058	35.5	17.0	7.68	10.5	3.37	0.453	0.212	0.507	1.08	8.48	1971
1972	0.516	0.214	5.44	19.4	13.2	6.76	5.33	1.48	1.31	0.243	0.208	0.130	4.77	1972
1973	0.135	0.082	0.575	0.782	0.772	1.89	2.41	0.800	1.14	0.894	0.450	0.450	0.870	1973
1974	0.323	0.377	0.388	76.7	49.9	21.8	4.50	0.858	0.110	0.080	0.020	0.017	12.8	1974
1975	0.019	0.017	0.016	12.0	32.2	10.7	3.13	0.108	0.048	0.068	0.054	0.040	4.89	1975
1976	1.57	0.132	0.083	83.8	19.2	5.80	0.788	0.083	0.034	0.014	0.010	0.010	7.54	1976
1977	0.011	0.017	0.018	0.074	0.083	0.081	0.082	0.017	0.015	0.020	0.019	0.018	0.034	1977
1978	0.024	0.024	0.048	10.8	5.77	2.16	0.440	0.028	0.007	0.015	0.010	0.007	1.81	1978
1979	0.002	0.001	0.003	40.4	36.4	7.53	1.05	0.098	0.125	0.048	0.058	0.028	7.06	1979
1980	0.018	0.019	0.021	2.43	0.353	0.108	0.089	0.005	0.006	0.026	0.001	0.001	0.253	1980
1981	0.007	0.046	3.72	4.82	0.181	0.103	0.042	0.043	0.047	0.056	0.058	0.044	0.774	1981
1982	0.012	0.008	0.251	16.8	11.1	9.08	3.06	0.533	0.087	0.077	0.052	0.218	3.46	1982
1983	0.834	0.323	1.52	15.7	5.86	1.85	0.827	0.040	0.019	0.017	0.014	0.007	2.24	1983
1984	0.004	0.015	0.190	1.34	2.23	1.22	0.052	0.015	0.002	0.007	0.010	0.013	0.425	1984
MEAN	0.192	0.095	1.03	19.4	12.8	5.45	2.31	0.872	0.857	0.388	0.140	0.130	3.85	MEAN

LOCATION - LAT 49 13 18 N DRAINAGE AREA, 4 480 km²
LONG 99 02 03 W REGULATED SINCE 1940

PEMBINA RIVER BELOW CRYSTAL CREEK - STATION NO. 05DB023

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1962	---	19.8 B ON APR 18	0 B ON MAR 1 *	---	1962
1963	---	11.3 ON JUN 11	0 B ON MAR 1	---	1963
1964	---	11.5 ON APR 18	0 B ON JAN 1	39 200	1964
1965	---	20.7 ON APR 20	0.0068 ON FEB 1	83 100	1965
1966	---	23.1 B ON MAR 31	0 B ON JAN 31	76 200	1966
1967	---	15.3 ON APR 25	0 B ON DEC 19	49 000	1967
1968	---	16.9 ON SEP 8	0 B ON JAN 1	83 200	1968
1969	---	278 B ON APR 15	0.0688 ON JAN 1	313 000	1969
1970	---	78.7 ON MAY 18	0.0658 ON JAN 18	239 000	1970
1971	---	80.7 ON APR 12	0.0348 ON FEB 11	204 000	1971
1972	---	22.0 ON APR 14	0.1138 ON DEC 28	161 000	1972
1973	---	3.20 ON JUL 7	0.0718 ON FEB 15	27 400	1973
1974	---	317 ON APR 22 *	0.0108 ON NOV 14	408 000	1974
1975	---	59.5 ON MAY 4	0.011 ON SEP 15	154 000	1975
1976	---	118 B ON APR 8	0.0108 ON NOV 3	238 000	1976
1977	---	0.1228 ON APR 10	0.0088 ON JAN 1	1 070	1977
1978	---	16.8 B ON APR 11	0 ON SEP 10	50 700	1978
1979	---	187 ON APR 25	0.0018 ON JAN 20	223 000	1979
1980	---	4.80 A ON APR 8	0 ON JUL 30	8 010	1980
1981	12.1 AT 12:53 CST ON MAR 31	12.0 ON MAR 31	0.0018 ON JAN 1	24 400	1981
1982	27.8 AT 07:25 CST ON APR 17 *	27.8 ON APR 18	0.0088 ON FEB 16	105 000	1982
1983	22.1 AT 17:39 CST ON APR 8	21.8 ON APR 8	0.0048 ON DEC 28	70 800	1983
1984	3.26 AT 02:22 CST ON MAY 18	3.11 ON MAY 18	0.001 ON AUG 28	13 400	1984
				122 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR KALEIDA - STATION NO. 05DB008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	---	---	---	3.82	1.73	2.04	---	1957
1958	1.01	0.481	0.548	4.37	2.26	0.546	0.318	0.026	0.008	0.013	0.256	0.102	0.826	1958
1959	0.016	0	0.263	5.48	2.11	1.18	0.261	0.198	0.118	0.852	2.81	3.08	1.37	1959
1960	1.55	1.24	0.577	46.4	33.3	10.4	4.18	1.89	0.881	0.511	0.191	0.118	8.42	1960
1961	0.123	0.057	0.809	7.18	3.97	0.777	0.080	0.015	0.022	0.007	0	0	1.07	1961
1962	0	0	0.001	8.17	5.88	4.48	1.77	2.31	2.67	1.14	0.528	0.487	2.30	1962
1963	0.203	0	0.858	3.80	8.21	5.27	2.60	2.81	1.84	0.783	0.438	0.044	2.18	1963
1964	0	0	0.008	8.22	8.62	3.21	0.878	0.718	0.800	0.497	0.224	0.008	1.83	1964
1965	0	0	0	13.9	18.1	10.7	3.61	1.71	2.89	1.84	1.27	0.891	4.55	1965
1966	0.258	0	4.88	30.0	19.8	8.17	3.57	1.84	0.576	0.176	0.158	0.047	5.79	1966
1967	0.085	0.032	0.812	14.4	18.7	7.01	1.74	0.377	0.093	0.482	0.145	0.068	3.77	1967
1968	0	0	3.11	3.23	1.81	0.710	0.714	2.82	11.3	11.4	4.75	1.33	3.63	1968
1969	0.475	0.418	0.405	85.0	47.4	13.4	7.52	3.81	2.58	1.81	0.853	0.708	14.6	1969
MEAN	0.310	0.184	1.02	19.9	14.2	5.57	2.25	1.55	1.95	1.80	1.04	0.888	4.17	MEAN

LOCATION - LAT 49 03 30 N DRAINAGE AREA, 7 120 km²
LONG 98 27 50 W REGULATED

PEMBINA RIVER NEAR KALEIDA - STATION NO. 05OB005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	8.58 ON APR 8	0.008A ON SEP 2	26 000	1958
1959	15.0B AT 20:00 CST ON APR 5	14.2 B ON APR 5	0 B ON JAN 19 *	43 200	1959
1960	75.3 AT 06:00 CST ON APR 24 *	74.2 ON APR 24	0.051B ON DEC 26	255 000	1960
1961	---	8.89B ON APR 18	0 ON OCT 27	33 600	1961
1962	36.2 AT 20:40 CST ON APR 20	34.5 ON APR 20	0 B ON JAN 1	72 600	1962
1963	---	8.44 ON JUN 5	0 B ON JAN 15	68 200	1963
1964	---	11.7 ON MAY 10	0 B ON JAN 1	58 000	1964
1965	---	35.1 B ON APR 14	0 B ON JAN 1	144 000	1965
1966	85.1B AT 01:30 CST ON APR 3	58.0 B ON APR 3	0 B ON FEB 1	183 000	1966
1967	46.7 AT 16:30 CST ON APR 23	40.6 ON APR 23	0 B ON DEC 30	119 000	1967
1968	---	15.1 ON SEP 27	0 B ON JAN 1	108 000	1968
1969	---	288 ON APR 19 *	0.314B ON MAR 17	457 000	1969
				132 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR KILLARNEY - STATION NO 05OA005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.803	0.159	0.064	0.085	0.001	0.335	0.010	0.836	---	---	0.287	1959
1960	---	---	0.256	5.08	2.14	0.525	0.027	0	0	0	---	---	0.892	1960
1961	---	---	0.711R	0.344R	0.138	0.012	0	0	0	0	---	---	0.151R	1961
1962	---	---	0.044	1.83	0.220	1.19	0.038	0.031	0	0	---	---	0.411	1962
1963	---	---	0.491	0.827	0.521	0.988	0.014	0.009	0.005	0.002	---	---	0.354	1963
1964	---	---	0.002	2.39 R	0.851	0.431	0.138	0.005	0.010	0.020	---	---	0.450R	1964
1965	---	---	0	3.16	1.26	0.592	0.420	0.164	0.209	0.113	---	---	0.732	1965
1966	---	---	1.15	1.07	1.80	0.332	0.746	0.084	0.002	0	---	---	0.850	1966
1967	---	---	0.028	0.873	0.640	0.148	0.003	0	0	0	---	---	0.210	1967
1968	---	---	0.096	0.176	0.099	0.033	0.026	0.492R	0.738	0.107	---	---	0.220R	1968
1969	---	---	0 R	8.83 R	1.15 R	0.427R	2.00 R	0.111R	0.008R	0.017R	---	---	1.55 R	1969
1970	---	---	0	2.88	3.39 R	0.188R	0.038R	0.008R	0	0	---	---	0.810R	1970
1971	---	---	0	2.26	0.383	1.04	0.834	0.001	0	0.388	---	---	0.615	1971
1972	---	---	3.08	3.89	1.26	2.51	0.216	0.075	0.050	0.019	---	---	1.37	1972
1973	---	---	0.310	0.187	0.776	1.44	0.309	0.277	0.214	0.284	---	---	0.467	1973
1974	---	---	0.003	12.1	4.81	0.880	0.075	0.074	0.007	0.044	---	---	2.21	1974
1975	---	---	0.014	7.81	2.82	1.26	0.088	0.031	0.408	0.923	---	---	1.82	1975
1976	---	---	1.03	8.89	0.540	0.118	0.005	0	0	0	---	---	1.42	1976
1977	---	---	0.104	0.113	0.159	0.042	0.130	0.022	0.003	0.005	---	---	0.072	1977
1978	---	---	0.028	1.23	0.733	0.331	0.048	0	0	0	---	---	0.294	1978
1979	---	---	0	7.06	1.70	0.389	0.016	0.001	0	0	---	---	1.13	1979
1980	---	---	0	0.714	0.008	0	0	0.110	0.077	0.166	---	---	0.133	1980
1981	---	0.800	0.271	0.158	0.141	0.252	0.071	0.075	0.018	0.020	---	---	0.128	1981
1982	---	---	0.443	2.43	0.429	0.137	0.035	0.007	0.002	0.038	---	---	0.435	1982
1983	---	---	0.841	1.48	0.598	0.131	0.048	0.001	0.001	0.001	---	---	0.388	1983
1984	---	---	0.357	0.271	0.518	0.051	0.005	0	0	0	---	---	0.151	1984
MEAN	---	0.800	0.380R	2.97 R	1.03 R	0.508R	0.208R	0.073R	0.068R	0.113R	---	---	0.884	MEAN

LOCATION - LAT 49 12 41 N, LONG 99 44 38 W DRAINAGE AREA, 355 km^2 NATURAL FLOW

R - REVISED SINCE JAN 1980

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 3.80 AND 0 m^3/s OCCURRED IN FEB

PEMBINA RIVER NEAR KILLARNEY - STATION NO. 05GA005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.63 B ON MAR 20	0 B ON MAR 1 *	5 070	1959
1960	---	13.1 ON APR 6	0 B ON MAR 1	21 000	1960
1961	---	4.67 B ON MAR 22	0 B ON MAR 1	3 200R	1961
1962	---	18.2 ON JUN 16	0 B ON MAR 1	8 700	1962
1963	---	6.09 ON JUN 5	0 B ON MAR 1	7 490	1963
1964	---	8.41 R ON APR 10	0 B ON MAR 1	9 520R	1964
1965	---	10.7 ON APR 13	0 B ON MAR 1	15 500	1965
1966	---	5.01 ON JUL 4	0 B ON MAR 1	13 800	1966
1967	---	2.88 ON APR 29	0 B ON MAR 1	4 430	1967
1968	---	3.85 R ON AUG 25	0 B ON MAR 1	4 650R	1968
1969	39.1 R AT 16:00 CST ON APR 12 *	38.0 R ON APR 11	0 RB ON MAR 1	32 800R	1969
1970	---	15.2 ON APR 27	0 B ON MAR 1	17 100R	1970
1971	---	10.6 B ON APR 7	0 B ON MAR 1	13 000	1971
1972	---	15.8 B ON MAR 17	0 B ON MAR 1	29 100	1972
1973	---	8.00 ON JUN 18	0 B ON MAR 1	9 890	1973
1974	---	39.4 ON APR 21	0 ON JUL 25	46 800	1974
1975	---	37.1 ON APR 29	0.003 ON JUL 30	34 300	1975
1976	---	22.7 B ON APR 2	0 E ON JUL 23	30 100	1976
1977	---	0.623E ON MAY 19	0 ON AUG 28	1 630	1977
1978	---	3.40 E ON MAY 25	0 ON AUG 2	6 210	1978
1979	---	71.4 B ON APR 20 *	0 B ON MAR 1	23 900	1979
1980	---	3.34 B ON APR 5	0 B ON MAR 1	2 810	1980
1981	---	0.898 ON AUG 4	0 ON JUL 28	2 880	1981
1982	11.4 AT 07:15 CST ON APR 14	10.5 ON APR 14	0 B ON MAR 1	9 210	1982
1983	8.388 AT 11:51 CST ON MAR 14	5.19 B ON MAR 14	0.001 ON JUL 27	8 440	1983
1984	2.81 AT 11:36 CST ON MAY 5	2.42 ON MAY 5	0 ON JUL 9	3 190	1984
				14 000R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

PEMBINA RIVER NEAR LA RIVIERE - STATION NO. 05OB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	0.717	3.22	3.83	3.66	2.10	2.96	1.80	0.666	0.346	0.036	---	1983
1984	0	0	0	5.45	7.13	1.85	0.488	0.853	0.441	0.326	0.211	0.023	1.38	1984
1985	0.002	0	0	8.70	15.0	10.0	3.20	1.45	1.87	1.84	1.17	0.603	3.85	1985
1986	0.185	0	2.71	15.8	12.6	7.31	4.25	1.47	0.369	0.088	0.067	0.022	3.75	1986
1987	0.047	0.081	0.438	7.88	11.1	4.81	0.954	0.288	0.119	0.075	0.052	0.032	2.15	1987
1988	0	0	1.83	1.88	1.85	0.803	0.508	2.97	10.2	9.47	4.00	1.23	2.85	1988
1989	0.282	0.334	0.880	89.1	37.8	11.8	8.72	3.80	2.35	1.47	1.12	0.632	12.8	1989
1970	0.248	0.114	0.088	18.2	39.4	22.5	13.8	4.90	2.84	1.91	1.04	0.188	8.81	1970
1971	0.021	0.014	0.015	30.8	27.5	9.32	7.75	6.48	3.38	2.01	1.13	0.888	7.44	1971
1972	0.524	0.089	2.82	25.8	18.1	6.91	4.77	4.04	2.48	1.31	0.788	0.084	5.62	1972
1973	0.003	0.002	0.515	1.90	1.18	0.797	1.42	1.47	1.24	1.33	0.880	0.611	0.851	1973
1974	0.280	0.310	0.679	70.8	76.4	35.8	9.10	2.39	1.49	0.748	0.392	0.178	19.5	1974
1975	0.110	0.018	0.024	4.93	33.1	13.0	4.87	1.74	0.830	0.688	0.348	0.188	5.04	1975
1976	0.218	1.74	0.852	68.0	38.2	10.2	2.18	0.828	0.478	0.259	0.108	0.021	10.2	1976
1977	0.013	0.013	0.037	0.158	0.925	0.303	0.048	0.007	0.221	0.085	0.033	0.022	0.158	1977
MEAN	0.134	0.188	0.727	23.3	21.8	9.27	4.14	2.35	1.87	1.48	0.780	0.288	5.80	MEAN

LOCATION - LAT 49 13 50 N
LONG 98 41 20 W
DRAINAGE AREA, 5 310 km^2
REGULATED

PEMBINA RIVER NEAR LA RIVIERE - STATION NO. 05OB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1983	---	4.67 ON MAY 3	0 B ON MAR 1 *	---	1983
1984	---	8.78 ON MAY 1	0 B ON JAN 1	43 700	1984
1985	---	18.0 ON MAY 5	0 B ON JAN 10	115 000	1985
1986	---	18.8 ON MAY 5	0 B ON JAN 25	118 000	1986
1987	---	21.3 ON APR 21	0 B ON DEC 24	67 800	1987
1988	---	13.8 ON SEP 23	0 B ON JAN 1	80 300	1988
1989	---	283 ON APR 18	0.2219 ON JAN 8	408 000	1989
1970	47.8 AT 20:30 CST ON MAY 15	47.0 ON MAY 15	0.0578 ON DEC 31	271 000	1970
1971	---	67.7 ON APR 24	0.0118 ON MAR 10	235 000	1971
1972	---	37.4 B ON APR 10	0.0088 ON DEC 31	178 000	1972
1973	4.84 AT 08:24 CST ON JUL 8	4.73 ON JUL 8	0.0018 ON FEB 10	30 000	1973
1974	308 AT 07:51 CST ON APR 25 *	303 ON APR 25 *	0.1428 ON FEB 3	521 000	1974
1975	48.7 AT 12:00 CST ON MAY 11	48.1 ON MAY 11	0.0098 ON FEB 18	159 000	1975
1976	114 AT 13:15 CST ON APR 14	113 ON APR 14	0.0148 ON DEC 28	331 000	1976
1977	8.58 AT 10:02 CST ON MAY 18	8.34 ON MAY 18	0 ON JUL 25	4 830	1977
				183 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR MANITOU - STATION NO. 05OB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1921	---	---	---	---	3.02	1.25	3.25	0.284	0.328	0.475	---	---	---	1921
1922	---	---	---	7.48	4.57	1.52	0.314	0.243	0.318	---	---	---	---	1922
1923	---	---	---	20.1	22.1	5.55	1.88	2.40	---	---	---	---	---	1923
1924	---	---	---	---	2.73	2.01	0.557	---	---	---	---	---	---	1924
1925	---	---	3.88	7.52	4.38	2.48	1.25	1.08	---	---	---	---	---	1925
1926	---	---	---	---	1.01	0.800	0.455	0.332	---	---	---	---	---	1926
1927	---	---	---	15.5	13.0	10.5	5.77	5.84	5.48	5.95	---	---	---	1927
1928	---	---	4.37	8.44	3.87	2.52	1.15	0.781	---	---	---	---	---	1928
1929	---	---	---	2.35	2.40	0.726	0.372	0.047	0.027	0.087	---	---	---	1929
1930	---	---	---	14.5	9.38	3.83	0.850	0.478	0.492	0.888	---	---	---	1930
1931	---	---	---	3.43	1.70	0.535	0.138	0.018	0.017	0.028	---	---	---	1931
1932	---	---	---	8.52	3.24	1.03	0.488	---	---	---	---	---	---	1932
1933	---	---	0.312	15.3	11.5	5.57	1.32	0.842	1.11	1.11	---	---	---	1933
1934	---	---	---	8.80	3.15	1.16	0.233	0.011	0.005	0.012	---	---	---	1934
1935	---	---	---	1.75	1.08	0.938	0.805	0.885	0.485	0.341	---	---	---	1935
1936	---	---	0	10.7	8.85	4.31	1.17	0.453	0.587	0.471	---	---	---	1936
1937	---	---	0	1.10	0.787	0.719	0.101	0.024	0.002	0.007	---	---	---	1937
1938	---	---	1.84	2.29	1.71	0.820	0.148	0.053	0.003	0.013	---	---	---	1938
1939	---	---	0.038	0.302	0.113	0.038	0.005	0	0	0	---	---	---	1939
1940	---	---	0	0.481	0.089	0.013	0.002	0.086	0.007	0	---	---	---	1940
1941	---	---	0	14.7	7.52	2.38	0.681	0.703	1.05	1.05	---	---	---	1941
1942	---	---	1.56	29.0	18.3	5.90	1.71	1.38	1.15	0.847	---	---	---	1942
1943	---	---	1.98	9.48	5.08	3.18	2.77	5.80	4.54	2.89	---	---	---	1943
1944	---	---	---	3.21	4.41	5.12	22.3	17.4	8.81	4.15	3.54	---	---	1944
1945	---	---	11.3	24.1	14.8	7.80	5.82	2.70	1.81	1.20	---	---	---	1945
1946	---	---	8.77	12.9	5.11	1.73	1.01	0.493	0.310	0.382	0.283	---	---	1946
1947	---	---	---	9.19	5.92	2.40	1.02	1.45	1.29	0.943	---	---	---	1947
1948	---	---	---	9.47	18.6	7.44	4.50	3.92	2.43	1.18	---	---	---	1948
1949	---	---	---	58.8	30.8	13.3	5.48	2.84	1.50	0.882	---	---	---	1949
1950	---	---	---	19.0	37.4	24.8	12.3	8.43	4.84	3.03	---	---	---	1950
1951	---	---	---	13.5	11.3	5.50	2.24	1.03	0.538	0.208	---	---	---	1951
1952	---	---	---	5.80	4.52	2.33	0.814	0.200	0.018	0.023	0.001	---	---	1952
1953	---	---	---	1.26	0.577	2.68	1.80	0.878	0.174	0.088	0.083	---	---	1953
1954	---	---	---	1.06	0.661	9.01	17.8	8.29	3.88	2.05	1.18	---	---	1954
1955	---	---	0.311	30.2	17.4	9.11	5.13	1.70	0.830	0.437	---	---	---	1955
1956	---	---	---	13.5	45.1	15.0	8.61	3.88	2.86	2.21	0.744	0.114	---	1956
1957	0.090	0.037	2.58	5.99	3.51	1.98	0.597	1.17	2.83	---	---	---	---	1957
MEAN	0.090	0.037	2.45	11.3	8.94	4.47	3.04	2.15	1.81	1.08	0.859	0.114	---	MEAN

LOCATION - LAT 49 08 50 N DRAINAGE AREA, 5 590 km²
LONG 98 33 45 W REGULATED

PEMBINA RIVER NEAR MANITOU - STATION NO. 05OB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1921	---	21.4 ON JUL 4	---	---	1921
1922	---	19.3 E ON APR 4	---	---	1922
1923	---	88.5 E ON APR 19	---	---	1923
1924	---	---	---	---	1924
1925	---	24.6 E ON MAR 25	---	---	1925
1926	---	1.53 ON APR 24	---	---	1926
1927	---	25.2 ON APR 13	---	---	1927
1928	---	18.4 E ON MAR 24	---	---	1928
1929	---	5.24 ON APR 18	---	---	1929
1930	---	28.6 E ON APR 8	---	---	1930
1931	---	8.07E ON APR 8	---	---	1931
1932	---	18.4 E ON APR 8	---	---	1932
1933	---	---	---	---	1933
1934	---	11.2 E ON APR 7	0 ON OCT 1 *	---	1934
1935	---	4.81E ON APR 13	---	---	1935
1936	---	---	---	---	1936
1937	---	---	---	---	1937
1938	---	---	---	---	1938
1939	---	---	---	---	1939
1940	---	---	---	---	1940
1941	---	---	---	---	1941
1942	---	---	---	---	1942
1943	---	---	---	---	1943
1944	---	34.5 ON JUL 20	---	---	1944
1945	---	---	---	---	1945
1946	---	---	---	---	1946
1947	---	14.8 ON APR 4	---	---	1947
1948	---	33.7 ON APR 21	---	---	1948
1949	---	142 ON APR 17 *	---	---	1949
1950	---	75.3 B ON APR 17	---	---	1950
1951	---	18.2 ON APR 5	---	---	1951
1952	---	15.7 B ON APR 1	0 ON SEP 13	---	1952
1953	---	8.10 ON JUN 5	---	---	1953
1954	---	27.0 ON JUL 1	---	---	1954
1955	---	---	---	---	1955
1956	---	70.2 ON MAY 1	---	---	1956
1957	---	12.7 B ON MAR 23	---	---	1957
				---	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

PEMBINA RIVER NEAR OUTLET OF SWAN LAKE - STATION NO. 05OB019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	0	2.07	4.72	4.34	2.61	2.82	1.88	0.820	---	---	2.33	1982
1983	---	---	0.245	3.01	4.20	4.11	2.38	2.39	1.86	0.838	---	---	2.30	1983
1984	---	---	0	5.06	6.03	3.00	3.79	2.83	0.836	0.287	---	---	2.94	1984
1985	---	---	0	8.24	18.2	8.78	2.27	1.82	2.01	1.46	---	---	5.09	1985
1986	---	---	1.37	13.8	10.1	4.78	2.65	0.842	0.121	0.120	---	---	4.16	1986
1987	---	---	0.008	9.26	11.5	4.06	1.13	0.081	0.040	0.020	---	---	2.75	1987
1988	---	---	0.370	1.52	0.851	0.428	0.486	1.67	10.5	7.87	---	---	2.91	1988
1989	---	---	0	81.7	42.7	11.0	5.17	3.26	1.93	0.948	---	---	18.2	1989
1970	---	---	0.055	12.4	36.7	24.9	14.7	5.43	2.33	1.58	---	---	12.2	1970
1971	---	---	0.042	31.7	28.6	8.71	8.30	6.89	2.78	1.82	---	---	10.8	1971
1972	---	---	4.31	23.0	18.6	6.75	5.89	---	---	---	---	---	---	1972
MEAN	---	---	0.584	17.1	18.4	7.17	4.46	2.76	2.38	1.52	---	---	6.35	MEAN

LOCATION - LAT 49 21 17 N LONG 98 49 04 W DRAINAGE AREA, 4 870 km² REGULATED

PEMBINA RIVER NEAR OUTLET OF SWAN LAKE - STATION NO. 05OB019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1982	---	7.14 ON APR 24	0 B ON MAR 1 *	49 300	1982
1983	---	5.66 ON MAY 2	0 B ON MAR 1	48 700	1983
1984	---	8.91 ON MAY 7	0 B ON MAR 1	62 100	1984
1985	---	19.2 ON MAY 18	0 B ON MAR 1	108 000	1985
1986	---	16.5 ON APR 28	0 B ON MAR 1	86 200	1986
1987	---	16.7 ON MAY 7	0 B ON MAR 1	58 200	1987
1988	---	12.7 ON SEP 20	0 B ON MAR 1	61 700	1988
1989	---	289 ON APR 17 *	0 B ON MAR 1	365 000	1989
1970	---	44.2 ON MAY 12	0.0288 ON MAR 1	259 000	1970
1971	---	86.1 ON APR 18	0.0348 ON MAR 1	224 000	1971
1972	---	25.4 ON APR 16	0 B ON MAR 1	---	1972
				134 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OB007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	0.009	0.002	0.029	11.9	5.80	4.41	1.55	2.19	2.72	1.09	0.480	0.882	2.57	1982
1983	0.280	0	1.16	3.82	4.71	5.16	2.73	2.77	1.72	0.773	0.327	0.095	1.97	1983
1984	0.023	0	0	6.56	8.01	3.41	1.01	1.26	0.868	0.653	0.227	0.032	1.84	1984
1985	0	0	0	13.0	18.3	10.8	3.54	1.80	2.28	1.78	1.14	0.838	4.45	1985
1986	0.367	0.084	4.08	29.2	19.7	8.03	3.75	1.87	0.733	0.307	0.181	0.078	5.70	1986
1987	0.133	0.098	0.878	16.9	18.5	8.07	1.80	0.488	0.017	0.489	0.263	0.083	3.82	1987
1988	0.013	0	7.48	3.66	1.88	0.869	0.525	3.18	9.21	9.71	4.83	1.28	3.57	1988
1989	0.543	0.405	0.441	88.1	43.6	13.5	8.20	4.36	2.52	1.71	1.20	0.836	13.7	1989
1970	0.424	0.355	0.342	31.0	52.8	30.4	17.9	7.38	3.70	2.15	1.21	0.409	12.4	1970
1971	0.268	0.273	0.322	57.3	36.8	13.2	8.73	8.27	4.01	2.30	1.63	1.08	11.3	1971
1972	0.531	0.395	7.67	34.1	21.9	8.89	5.58	4.68	2.78	2.05	0.807	0.143	7.46	1972
1973	0.081	0.065	1.60	2.11	1.40	0.937	1.30	1.44	1.28	1.44	0.824	0.419	1.09	1973
1974	0.248	0.321	0.335	85.0	102	42.8	10.4	3.29	2.17	1.25	0.946	0.372	20.8	1974
1975	0.185	0.108	0.194	7.27	33.3	15.5	5.39	2.04	0.884	0.843	0.594	0.254	5.59	1975
1976	0.328	1.28	1.16	74.5	36.9	10.7	3.24	1.21	0.715	0.548	0.248	0.008	10.8	1976
1977	0	0	0.082	0.802	0.881	0.535	0.141	0.008	0.093	0.242	0.067	0.023	0.232	1977
1978	0.007	0	0.068	17.4	10.4	3.19	1.38	0.889	0.857	0.342	0.151	0.078	2.88	1978
1979	0.027	0.007	0.030	38.3	83.1	21.1	5.51	1.43	1.29	1.11	0.813	0.286	12.8	1979
1980	0.053	0.019	0.038	4.22	2.17	0.845	0.044	0.040	0.028	0.052	0.132	0.073	0.823	1980
1981	0	0.170	1.47	8.38	3.78	0.759	0.305	0.092	0.034	0.074	0.087	0.023	0.931	1981
1982	0	0	0.337	12.1	18.7	12.9	5.30	2.59	1.31	1.19	0.545	0.189	4.44	1982
1983	0.101	0.027	1.27	18.4	12.1	4.96	1.74	0.397	0.138	0.287	0.186	0.060	3.39	1983
1984	0.001	0.005	0.208	1.88	2.21	2.75	0.389	0.026	0.002	0.020	0.022	0.005	0.831	1984
MEAN	0.157	0.156	1.27	24.5	23.3	9.63	3.98	2.24	1.71	1.32	0.739	0.302	5.78	MEAN

LOCATION - LAT 49 01 53 N LONG 98 18 40 W DRAINAGE AREA, 7 510 km² REGULATED INTERNATIONAL GAUGING STATION

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OB007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1982	---	45.8 ON APR 21	0 B ON FEB 21 *	80 800	1982
1983	---	7.22 ON JUN 8	0 B ON JAN 29	82 100	1983
1984	---	9.15 ON MAY 10	0 B ON JAN 20	58 300	1984
1985	---	39.1 B ON APR 14	0 B ON JAN 1	141 000	1985
1986	---	48.1 B ON APR 3	0.0458 ON NOV 30	180 000	1986
1987	53.5 AT 09:00 CST ON APR 21	48.0 ON APR 21	0 ON SEP 11	120 000	1987
1988	21.1 B AT 07:20 CST ON MAR 24	18.7 B ON MAR 24	0 B ON JAN 23	113 000	1988
1989	231 AT 18:08 CST ON APR 19	228 ON APR 19	0.3858 ON MAR 5	433 000	1989
1990	108 AT 08:53 CST ON APR 28	104 ON APR 28	0.2048 ON DEC 31	382 000	1990
1991	---	187 B ON APR 10	0.1908 ON JAN 1	354 000	1991
1992	---	45.8 B ON APR 12	0.0548 ON DEC 31	238 000	1992
1993	4.11 AT 17:18 CST ON AUG 5	2.84 ON JUL 12	0.0288 ON JAN 5	34 400	1993
1994	326 AT 11:30 CST ON APR 26 *	317 ON APR 26 *	0.1708 ON JAN 14	656 000	1994
1995	42.6 AT 14:30 CST ON MAY 14	42.2 ON MAY 14	0.0688 ON FEB 5	176 000	1995
1996	119 AT 00:36 CST ON APR 17	116 ON APR 17	0 B ON DEC 7	343 000	1996
1997	4.33 AT 19:13 CST ON MAY 21	3.91 ON MAY 21	0 B ON JAN 1	7 320	1997
1998	---	30.9 B ON APR 9	0 B ON JAN 19	80 800	1998
1999	164 AT 17:58 CST ON MAY 2	152 ON MAY 2	0.0028 ON FEB 12	404 000	1999
2000	---	9.288 ON APR 5	0 B ON DEC 28	19 700	2000
2001	14.9 AT 22:02 CST ON MAY 22	8.12 ON MAY 23	0 B ON JAN 1	29 300	2001
2002	54.5 AT 18:55 CST ON JUN 6	44.9 ON JUN 6	0 B ON JAN 1	140 000	2002
2003	32.4 AT 00:00 CST ON APR 8	28.7 ON APR 8	0.0048 ON DEC 31	107 000	2003
2004	13.9 AT 02:31 CST ON JUN 16	8.81 ON JUN 16	0 B ON JAN 2	19 900	2004
				183 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NORTH OF KILLARNEY - STATION NO. 05OA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1921	---	---	---	---	0.072	0.051	0.005	0	0.008	---	---	---	---	1921
1925	---	---	---	1.20	0.245	2.34	---	---	---	---	---	---	---	1925
1926	---	---	---	---	---	---	---	---	---	0.077	---	---	---	1926
1927	---	---	5.29	3.34	8.52	1.49	1.84	0.423	0.057	0.082	0.042	---	---	1927
1928	---	---	1.98	0.457	0.206	1.62	4.29	0.199	0.089	---	---	---	---	1928
MEAN	---	---	3.64	1.87	1.76	1.63	1.98	0.207	0.044	0.080	0.042	---	---	MEAN

LOCATION - LAT 49 13 45 N DRAINAGE AREA, 420 km^2
LONG 99 36 50 W NATURAL FLOW

PEMBINA RIVER NORTH OF KILLARNEY - STATION NO. 05OA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1921	---	---	0 E ON JUL 9 *	---	1921
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1927	---	22.6 ON MAY 13 *	0.003 ON SEP 23	---	1927
1928	---	19.7 ON JUL 10	---	---	1928
				---	MEAN

E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PIGEON RIVER AT OUTLET OF ROUND LAKE - STATION NO. 05RD008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	181	129	76.1	43.1	28.7	22.9	---	1957
1958	21.8	22.1	21.1	22.5	31.6	82.0	90.1	83.6	82.2	65.0	58.7	64.0	55.6	1958
1959	74.1	64.7	27.8	25.1	177	345	248	149	101	74.8	65.8	63.4	122	1959
1960	65.2	48.1	34.7	32.2	65.7	136	130	87.8	70.3	72.2	62.8	53.2	71.7	1960
1961	48.0	43.0	35.0	34.0	53.0	89.7	79.8	62.4	27.8	23.5	21.0	27.7	44.7	1961
1962	37.2	35.2	28.7	24.7	28.5	96.9	146	88.3	70.7	80.5	78.3	73.7	67.0	1962
1963	65.2	53.8	41.8	37.7	61.3	207	180	116	87.4	39.5	31.3	28.6	80.1	1963
1964	27.8	27.1	26.8	25.3	65.5	181	141	85.8	61.3	60.4	57.8	63.8	57.8	1964
1965	61.8	54.4	38.8	38.2	55.2R	181	195	133	102	98.8	87.8	84.4	83.2R	1965
1966	71.3	58.9	45.8R	44.0R	78.1R	190	238	180	105	59.9R	44.6R	44.8R	86.8R	1966
1967	46.9R	44.9R	38.5	42.7	71.5	176	215	125	86.3R	41.7R	32.3R	27.2R	77.8R	1967
1968	25.1R	24.6R	22.6R	29.6R	47.6R	103	226	224	193	198	183	153	120 R	1968
1969	109	78.0	56.4R	61.6R	80.7	189	182	218	230	295	282	181	181 R	1969
1970	117	89.9	62.1R	64.2R	63.6R	73.1R	138	107	80.9	86.2	74.2	105	82.1R	1970
1971	112	80.4	54.8	54.7	140	208	134	109	105	81.3	59.3R	53.6R	88.3R	1971
1972	55.4	54.3R	44.3R	62.3R	104	186	132	81.8	55.1R	50.2R	49.7R	64.2	77.4R	1972
1973	55.9	44.1	37.2	43.6	73.5	123	125	86.6	86.8	78.0	103	122	80.3	1973
1974	90.4	67.9	54.6R	56.0R	122	254	227	130	110	152	127	85.3	123 R	1974
1975	63.0	51.0R	41.0R	41.4R	66.4R	157	195	158	148	125	87.6	59.6R	100 R	1975
1976	47.6R	40.8R	34.5R	56.1R	74.1	83.1	77.1	47.8R	29.2R	19.3R	14.4R	11.5R	45.4R	1976
1977	10.3	10.1	11.2	14.4	16.4	35.3	55.6	54.5	118	176	141	85.5	81.7	1977
1978	64.9	43.7	32.3	35.8	61.3	108	158	191	167	161	132	84.8	108	1978
1979	73.4	58.7	43.8	54.0	135	300	189	108	88.6	78.1	78.3	74.0	107	1979
1980	70.4	55.8	42.2	44.8	57.2	80.3	89.3	81.8	81.2	48.2	42.4	47.5	58.3	1980
1981	45.1	37.5	30.6	34.0	40.0	61.1	111	101	74.8	62.8	58.5	74.8	82.3	1981
1982	72.1	57.7	44.3	54.0	111	218	207	144	94.5	74.4	53.8	45.3	88.0	1982
1983	41.8	35.9	32.2	35.0	58.7	90.2	123	127	87.8	55.4	36.4	25.8	82.7	1983
1984	27.4	28.8	25.4	36.8	58.4	117	147	109	70.6	57.4	56.8	87.8	57.2	1984
MEAN	58.2R	47.5R	36.9R	39.8R	74.4R	149 R	156	119 R	94.2R	87.3R	78.2R	70.0R	84.9	MEAN

R - REVISED SINCE JAN 1980

LOCATION - LAT 52 01 48 N
LONG 98 23 37 W NATURAL FLOW

PIGEON RIVER AT OUTLET OF ROUND LAKE - STATION NO. 05RD008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	85.6 ON AUG 11	10.2 ON MAR 27	1 750 000	1958
1959	---	379 ON JUN 9 *	18.7 ON APR 9	3 840 000	1959
1960	---	155 ON JUN 23	27.5 ON APR 19	2 270 000	1960
1961	---	95.1 ON JUN 16	20.7 ON NOV 5	1 410 000	1961
1962	---	159 ON JUL 8	19.7 ON MAY 1	2 110 000	1962
1963	---	224 ON JUN 21	38.8 ON DEC 1	2 630 000	1963
1964	---	184 ON JUN 11	25.3 ON MAR 19	2 140 000	1964
1965	---	216 ON JUL 3	33.1 A ON MAR 20	2 940 000R	1965
1966	255 AT 16:30 CST ON JUL 4	250 ON JUL 4	37.6 R ON APR 11	3 080 000R	1966
1967	---	255 A ON JUL 1	25.6 R ON DEC 30	2 480 000R	1967
1968	---	236 ON JUL 21	20.4 R ON APR 5	3 790 000R	1968
1969	---	306 E ON OCT 17	43.9 R ON APR 7	5 070 000R	1969
1970	158 AT 07:48 CST ON JAN 1	163 ON JAN 1	38.2 R ON APR 13	2 590 000R	1970
1971	---	224 A ON JUN 3	45.6 E ON APR 8	3 130 000R	1971
1972	202 AT 15:23 CST ON JUN 13	200 ON JUN 13	16.1 R ON NOV 5	2 480 000R	1972
1973	151 AT 16:30 CST ON JUN 25	151 ON JUN 30	34.3 E ON APR 9	2 530 000	1973
1974	300 AT 11:30 CST ON JUN 25	297 ON JUN 23	41.5 R ON APR 15	3 890 000R	1974
1975	208 AT 12:14 CST ON JUN 30	208 ON JUN 30	35.0 R ON APR 12	3 170 000R	1975
1976	101 AT 21:10 CST ON JUN 27	100 ON JUN 28	10.9 R ON DEC 30	1 440 000R	1976
1977	182 AT 11:39 CST ON OCT 17	132 ON OCT 14	9.74 ON JAN 18 *	1 850 000	1977
1978	197 AT 00:42 CST ON AUG 8	197 ON AUG 7	28.3 B ON APR 7	3 400 000	1978
1979	318 AT 21:45 CST ON JUN 14 *	317 ON JUN 14	38.1 ON APR 13	3 390 000	1979
1980	101 AT 14:47 CST ON JUN 22	101 ON JUN 21	33.0 B ON APR 4	1 870 000	1980
1981	119 AT 21:44 CST ON JUL 30	119 ON JUL 31	28.3 ON MAR 25	1 880 000	1981
1982	---	251 E ON JUN 28	39.6 B ON APR 10	3 090 000	1982
1983	139 AT 17:42 CST ON JUN 27	139 ON JUN 27	24.3 B ON DEC 24	1 980 000	1983
1984	153 AT 04:08 CST ON JUL 22	151 ON JUL 22	24.4 B ON MAR 18	2 130 000	1984
				2 880 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

PILOT CREEK NEAR PILOT MOUND - STATION NO. 05OB023

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	0	0.031	0.007	0.085	0	0	0	0	---	---	0.015	1983
1984	---	---	0	0.421	0.028	0	0	0	0	0	---	---	0.055	1984
1985	---	---	0	0.584	0.122	0.008	0	0	0	0	---	---	0.088	1985
1986	---	---	0.451	0.824	0.253	0.014	0.034	0.003	0	0	---	---	0.195	1986
1987	---	---	0.004	0.801	0.311	0	0	0	0.252	0	---	---	0.120	1987
1988	---	---	0.184	0.109	0.017	0.007	0.028	0.285	0.330	0.078	---	---	0.131	1988
1989	---	---	0	4.85	0.520	0.409	0.332	0.003	0.021	0	---	---	0.731	1989
1970	---	---	0	1.89	1.05	0.335	0.041	0.002	0.026	0	---	---	0.390	1970
1971	---	---	0	1.30	0.312	0.152	0.250	0.013	0.154	0.057	---	---	0.277	1971
1972	---	---	0.548	1.11	0.428	0.088	0.012	0.018	0.003	0.001	---	---	0.271	1972
1973	---	---	0.015	0.006	0.011	0.003	0	0	0	0	---	---	0.004	1973
1974	---	---	0	3.75	2.82	0.389	0.017	0.001	0.001	0.001	---	---	0.841	1974
1975	---	---	0	0.410	0.203	0.044	0.004	0	0	0	---	---	0.082	1975
1976	---	---	0	2.18	0.178	0.003	0	0.001	0.002	0.004	---	---	0.281	1976
1977	---	---	0.001	0.002	0	0	0	0.002	0.002	0.001	---	---	0.001	1977
1978	---	---	0	0.430	0.042	0.001	0.001	0.001	0.001	0.001	---	---	0.058	1978
1979	---	---	0	2.58	0.886	0.038	0.003	0	0	0.001	---	---	0.434	1979
1980	---	---	0	0.050	0	0	0.005	0	0	0	---	---	0.007	1980
1981	---	---	0.118	0.004	0.002	0.009	0.003	0.004	0.003	0	---	---	0.018	1981
1982	---	---	0.033	0.295	0.013	0	0	0.010	0	0	---	---	0.043	1982
1983	---	---	0.227	0.283	0.001	0.001	0.007	0	0	0	---	---	0.035	1983
1984	---	---	0.001	0.024	0.008	0.003	0.013	0.007	0.002	0.001	---	---	0.007	1984
MEAN	---	---	0.072	0.970	0.318	0.071	0.034	0.018	0.027	0.008	---	---	0.188	MEAN

LOCATION - LAT 49 12 34 N DRAINAGE AREA, 147 km²
LONG 98 57 08 W REGULATED

PILOT CREEK NEAR PILOT MOUND - STATION NO. 05OB023

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1983	---	0.374 ON JUN 8	0.0 ON MAR 1 *	319	1983
1984	---	0.748 ON APR 9	0.0 ON MAR 1	1 170	1984
1985	---	1.69 B ON APR 12	0.0 ON MAR 1	1 880	1985
1986	---	1.82 B ON APR 1	0.0 ON MAR 1	4 160	1986
1987	---	1.43 ON APR 21	0.0 ON MAR 1	2 540	1987
1988	---	1.70 ON AUG 24	0.0 ON MAR 1	2 780	1988
1989	---	15.0 B ON APR 11	0.0 ON MAR 1	15 500	1989
1970	---	3.94 ON APR 25	0.0 ON MAR 1	8 250	1970
1971	---	4.53 ON APR 8	0.0 ON MAR 1	5 880	1971
1972	---	2.28 ON APR 13	0.0 ON MAR 1	5 740	1972
1973	---	0.048 ON MAY 10	0.0 ON MAR 1	93.1	1973
1974	---	22.7 ON APR 21 *	0.0 ON MAR 1	17 800	1974
1975	---	1.29 ON APR 29	0.0 ON MAR 1	1 730	1975
1976	---	5.32 ON APR 5	0.0 ON MAR 1	5 170	1976
1977	---	0.024 ON AUG 9	0.0 ON MAR 1	21.6	1977
1978	---	1.72 B ON APR 6	0.0 ON MAR 1	1 240	1978
1979	---	14.3 ON APR 23	0.0 ON MAR 1	9 170	1979
1980	---	0.3778 ON APR 7	0.0 ON MAR 1	143	1980
1981	---	0.624 ON MAR 17	0.0 ON MAR 1	384	1981
1982	1.85 AT 19:13 CST ON APR 12	1.47 ON APR 12	0.0 ON MAR 1	917	1982
1983	2.20 AT 09:00 CST ON JUL 27	1.47 E ON APR 1	0.0 ON MAR 1	1 370	1983
1984	2.92 AT 09:18 CST ON AUG 15 *	0.381 ON APR 10	0.0 ON MAR 1	151	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 970	MEAN

PINAWA CHANNEL BELOW CONTROL DAM - STATION NO. 05PF049

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1908	---	---	---	---	178	157	157	158	180	182	---	---	182	1908
1909	---	---	---	---	183	180	168	148	157	175	---	---	162	1909
1910	---	---	---	---	312	270	187	159	159	175	---	---	207	1910
1911	---	---	---	---	248	282	272	276	272	233	---	---	280	1911
1912	---	---	---	---	270	283	---	---	---	---	---	---	---	1912
1914	---	---	---	---	---	294	298	290	275	272	---	---	---	1914
1915	---	---	---	---	---	284	298	288	287	258	280	---	---	1915
MEAN	---	---	---	---	237	244	225	221	215	213	280	---	198	MEAN

LOCATION - LAT 50 09 45 N REGULATED
LONG 95 52 05 W

DATA CONTRIBUTED BY -
CITY OF WINNIPEG HYDRO-ELECTRIC SYSTEM

PINAWA CHANNEL BELOW CONTROL DAM - STATION NO. 05PP00X8

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1908	---	199 ON MAY 1	153 ON JUN 9	2 570 000	1908
1909	---	214 ON MAY 14	123 ON AUG 8 *	2 570 000	1909
1910	---	317 ON MAY 15 *	155 ON AUG 13	3 280 000	1910
1911	---	276 ON JUL 20	* 200 ON OCT 20	4 130 000	1911
1912	---	289 ON JUN 4	251 ON MAY 1	---	1912
1914	---	---	---	---	1914
1915	---	---	---	---	1915
				3 140 000	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PINE CREEK DIVERSION NEAR PINEY - STATION NO. 05OD027

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1953	---	---	---	---	---	---	---	---	---	---	---	---	---	1953
1958	---	---	---	---	---	---	---	---	---	0.389	0.378	0.467	---	1958
1959	0.189	0.180	0.868	1.89	2.18	1.15	0.798	0.441	0.348	1.63	0.928	0.283	0.872	1959
1960	0.187	0.196	0.635	3.32	1.18	1.37	0.436	0.312	0.183	0.361	0.588	0.177	0.737	1960
1961	0.082	0.144	0.285	1.19	0.959	0.254	0.251	0.095	0.269	0.479	0.319	0.125	0.389	1961
1962	0.013	0.049	0.249	2.11	3.77	3.15	0.121	0.307	0.257	0.214	0.215	0.214	0.891	1962
1963	0.058	0.093	1.63	2.73	1.28	3.18	0.272	0.135	0.141	0.193	0.400	0.148	0.855	1963
1964	0.085	0.014	0.117	1.84	2.10	1.59	0.856	0.230	0.872	1.02	0.386	0.179	0.722	1964
1965	0.120	0.108	0.086	1.97	3.35	1.28	2.27	0.343	1.06	1.54	0.585	0.428	1.11	1965
1966	0.178	0.144	0.197	3.44	3.05	0.541	0.591	0.339	0.428	0.537	0.292	0.223	0.832	1966
1967	0.198	0.052	0.509	4.66	1.61	0.453	0.169	0.262	0.163	0.337	0.241	0.238	0.738	1967
1968	0.315	0.241	0.883	1.74	1.24	2.32	2.38	1.76	1.45	0.789	0.636	0.174	1.18	1968
1969	0.202	0.220	0.242	3.84	1.08	1.77	0.619	0.382	0.338	0.585	0.342	0.373	0.826	1969
1970	0.279	0.223	0.285	2.31	4.38	1.58	0.262	0.174	0.384	0.478	0.616	0.291	0.940	1970
1971	0.104	0.157	0.227	3.68	1.38	0.812	0.386	0.237	0.227	0.408	0.593	0.224	0.808	1971
1972	0.163	0.113	0.090	1.78	1.09	0.201	0.113	0.175	0.424	0.375	0.371	0.126	0.417	1972
1973	0.178	0.174	0.713	0.672	0.523	0.680	0.234	0.261	0.641	0.500	0.403	0.238	0.642	1973
1974	0.144	0.198	0.200	3.01	2.57	0.602	0.124	0.832	0.386	0.493	0.337	0.213	0.744	1974
1975	0.234	0.261	0.281	2.33	1.33	1.42	0.483	0.221	0.280	0.298	0.245	0.184	0.627	1975
1976	0.173	0.199	0.570	2.03	0.443	0.905	0.231	0.112	0.120	0.154	0.126	0.108	0.428	1976
1977	0.100	0.113	0.424	0.672	0.885	0.293	0.271	0.182	0.748	0.526	0.575	0.289	0.438	1977
1978	0.222	0.192	0.198	2.78	0.751	0.228	0.277	0.228	0.306	0.276	0.221	0.151	0.484	1978
1979	0.141	0.168	0.267	3.35	1.49	0.835	0.273	0.181	0.173	0.179	0.273	0.182	0.808	1979
1980	0.189	0.180	0.183	1.22	0.295	0.147	0.150	0.192	0.369	0.435	0.243	0.185	0.307	1980
1981	0.123	0.194	0.189	0.446	0.812	1.17	0.243	0.247	1.39	1.24	0.583	0.328	0.575	1981
1982	0.155	0.054	0.449	2.85	1.09	0.547	0.508	0.316	0.289	1.43	0.536	0.710	0.747	1982
1983	0.174	0.093	1.01	1.52	.48	0.819	0.216	0.256	0.235	0.383	0.437	0.559	0.598	1983
1984	0.373	0.313	0.483	1.30	0.575	1.84	0.355	0.147	0.112	0.532	0.339	0.793	0.569	1984
MEAN	0.166	0.153	0.430	2.22	1.57	1.10	0.489	0.313	0.436	0.584	0.406	0.278	0.579	MEAN

LOCATION - LAT 49 01 25 N DRAINAGE AREA 166 km^2
LONG 95 58 40 W REGULATED

PINE CREEK DIVERSION NEAR PINEY - STATION NO. 05OD027

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1953	---	---	---	---	1953
1958	---	---	0.303RB ON DEC 8	---	1958
1959	---	4.45 ON MAY 7	0.042 ON JUL 31	27 500	1959
1960	---	13.3 ON APR 14	0.0578 ON JAN 9	23 300	1960
1961	---	2.13 ON APR 24	0.0288 ON JAN 28	11 800	1961
1962	---	10.4 ON JUN 10	0.0088 ON JAN 28	28 100	1962
1963	---	7.38 ON JUN 9	0.0238 ON JAN 31	27 000	1963
1964	---	4.98 ON MAY 10	0.0068 ON FEB 19	22 800	1964
1965	---	11.4 ON MAY 6	0.0428 ON MAR 25	34 900	1965
1966	---	10.3 ON APR 9	0.088 ON JUL 29	28 200	1966
1967	---	17.8 8 ON APR 21 *	0.0088 ON FEB 25	23 300	1967
1968	---	7.99 ON JUL 17	0.0518 ON MAR 2	38 700	1968
1969	---	7.878 ON APR 9	0.178 ON AUG 23	28 100	1969
1970	---	9.85 ON MAY 27	0.102 ON AUG 15	29 800	1970
1971	---	9.08 ON APR 19	0.0858 ON JAN 25	19 200	1971
1972	---	4.84 ON APR 21	0.025 ON AUG 30	13 200	1972
1973	---	2.52 ON SEP 25	0.037 ON JUL 22	13 800	1973
1974	---	8.69 ON APR 21	0.018 ON AUG 5	23 800	1974
1975	9.09 AT 05:30 CST ON APR 21	4.79 ON APR 17	0.1448 ON DEC 5	19 800	1975
1976	5.01 AT 05:50 CST ON APR 17	3.45 ON APR 6	0.082 ON AUG 7	13 500	1976
1977	3.74 AT 00:56 CST ON APR 7	3.11 ON SEP 25	0.0988 ON JAN 9	13 800	1977
1978	3.34 AT 06:13 CST ON SEP 25	6.038 ON APR 9	0.1368 ON DEC 31	15 300	1978
1979	6.518 AT 17:04 CST ON APR 9	14.3 8 ON APR 19	0.1198 ON JAN 14	19 200	1979
1980	18.4 8 AT 18:03 CST ON APR 19 *	2.448 ON APR 7	0.088 ON AUG 2	9 700	1980
1981	2.58 AT 13:38 CST ON APR 7	11.1 ON SEP 8	0.118 ON AUG 20	15 100	1981
1982	11.8 AT 01:28 CST ON SEP 8	7.268 ON APR 15	0.0108 ON FEB 9	23 800	1982
1983	8.308 AT 22:37 CST ON APR 15	4.87 ON MAY 13	0.0048 ON FEB 8	15 800	1983
1984	4.96 AT 13:04 CST ON MAY 13	8.41 ON JUN 8	0.0018 ON MAR 10 *	15 000	1984
	9.14 AT 02:24 CST ON JUN 10			21 400	MEAN

8 - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

PINE CREEK NEAR MELBOURNE - STATION NO 05LL014

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0.117	1.08	0.406	0.298	0.444	0.141	0.202	0.150	---	---	---	1965
1966	---	---	0.474	0.814	0.414	0.172	0.090	0.140	0.125	0.148	---	---	---	1966
1967	---	---	0.132	1.04	0.314	0.178	0.088	0.084	0.051	0.142	---	---	---	1967
1968	---	---	0.328	0.353	0.317	0.162	0.204	0.284	0.271	0.300	---	---	---	1968
1969	---	---	0.118	1.29	0.484	0.424	0.487	0.189	0.184	0.283	0.198	0.152	---	1969
1970	0.135	0.140	0.161	1.81	0.785	0.545	0.312	0.105	0.230	0.230	0.263	0.126	0.382	1970
1971	0.124	0.138	0.170	0.793	0.416	0.368	0.291	0.119	0.110	0.289	0.239	0.130	0.265	1971
1972	0.136	0.118	0.316	0.803	0.319	0.279	0.172	0.122	0.114	0.161	0.145	0.085	0.230	1972
1973	0.089	0.097	0.195	0.210	0.319	0.296	0.205	0.116	0.148	0.200	0.148	0.118	0.179	1973
1974	0.084	0.106	0.118	1.66	0.587	0.328	0.054	0.083	0.106	0.159	0.190	0.144	0.289	1974
1975	0.118	0.113	0.125	0.797	0.429	0.225	0.085	0.188	0.205	0.211	0.154	0.118	0.228	1975
1976	0.128	0.135	0.154	1.68	0.310	0.243	0.091	0.068	0.075	0.103	0.132	0.098	0.258	1976
1977	0.122	0.138	0.203	0.201	0.790	0.320	0.302	0.143	0.275	0.213	0.197	0.184	0.258	1977
1978	0.164	0.134	0.308	0.849	0.438	0.235	0.276	0.180	0.170	0.197	0.204	0.168	0.284	1978
1979	0.157	0.147	0.171	1.87	0.773	0.344	0.127	0.121	0.072	0.154	0.238	0.159	0.269	1979
1980	0.145	0.148	0.181	0.448	0.177	0.118	0.109	0.275	0.151	0.227	0.185	0.110	0.168	1980
1981	0.087	0.185	0.188	0.150	0.196	0.244	0.098	0.125	0.122	0.196	0.185	0.110	0.159	1981
1982	0.083	0.108	0.148	0.533	0.245	0.187	0.335	0.105	0.185	0.241	0.167	0.119	0.202	1982
1983	0.110	0.102	0.133	1.59	0.300	0.242	0.189	0.071	0.088	0.205	0.197	0.119	0.278	1983
1984	0.084	0.118	0.218	0.276	0.268	0.284	0.125	0.088	0.077	0.167	0.159	0.102	0.167	1984
MEAN	0.120	0.128	0.197	0.912	0.407	0.268	0.204	0.134	0.148	0.196	0.186	0.128	0.249	MEAN

LOCATION - LAT 49 54 00 N DRAINAGE AREA, 293 km²
LONG 99 12 30 W NATURAL FLOW

PINE CREEK NEAR MELBOURNE - STATION NO 05LL014

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1965	---	4.11 B ON APR 14	---	---	1965
1966	---	3.14 ON APR 1	---	---	1966
1967	---	5.52 ON APR 10	---	---	1967
1968	---	1.57 ON MAR 26	---	---	1968
1969	---	5.66 E ON APR 13	---	---	1969
1970	13.2 AT 14 22 CST ON APR 25	9.94 ON APR 27	0.040 ON AUG 29	12 100	1970
1971	4.13 AT 23 49 CST ON APR 7	3.27 ON APR 8	0.074 ON AUG 29	5 370	1971
1972	3.14 AT 23 14 CST ON APR 10	2.76 ON APR 11	0.059 ON SEP 4	7 280	1972
1973	0.719 AT 02 59 CST ON MAY 7	0.697 ON MAY 7	0.059 ON JUL 23	5 830	1973
1974	10.9 AT 17 45 CST ON APR 18	9.66 ON APR 19	0.024 ON AUG 18 *	9 120	1974
1975	3.78 AT 15 10 CST ON APR 15	2.87 ON APR 15	0.028 ON JUL 15	7 200	1975
1976	10.6 AT 18 18 CST ON APR 7	8.58 ON APR 8	0.045 ON AUG 7	8 150	1976
1977	5.12 AT 20 15 CST ON MAY 19	3.88 ON MAY 20	0.057 ON AUG 24	8 150	1977
1978	5.29 AT 12 07 CST ON APR 7	3.54 ON APR 7	0.095 ON AUG 23	8 940	1978
1979	20.1 AT 18 20 CST ON APR 21 *	14.6 ON APR 21 *	0.038A ON AUG 31	11 800	1979
1980	1.31 AT 11 05 CST ON APR 7	1.10 ON AUG 21	0.068 ON AUG 2	5 840	1980
1981	0.870 AT 08 15 CST ON JUN 25	0.512 ON JUN 25	0.068 ON JUL 21	5 020	1981
1982	1.78 AT 10 51 CST ON APR 17	1.37 ON APR 15	0.044 ON AUG 8	6 370	1982
1983	8.58 AT 17 51 CST ON APR 8	6.91 ON APR 10	0.051 ON AUG 19	6 780	1983
1984	0.959 AT 04 03 CST ON JUN 15	0.756 ON JUN 15	0.037 ON AUG 25	5 270	1984
				7 880	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PINE CREEK NEAR PINE CREEK - STATION NO 05OD032

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1928	---	---	---	---	---	---	---	0.781	0.431	0.423	0.828	0.280	---	1928
1929	0.142	0.085	0.548	1.48	1.06	0.803	0.331	0.178	0.277	0.389	0.572	---	---	1929
1930	---	---	---	2.32	3.13	1.26	1.71	0.147	0.185	0.412	0.918	---	---	1930
1931	---	---	---	2.01	1.30	0.402	0.248	0.273	0.388	0.517	0.812	---	---	1931
1932	---	---	---	2.77	1.38	0.409	0.482	0.314	0.334	0.852	---	---	---	1932
1933	---	---	---	3.34	2.58	0.836	0.155	0.111	0.157	0.173	0.284	---	---	1933
1934	---	---	---	0.880	0.504	0.522	0.153	0.129	0.157	0.458	---	---	---	1934
1935	---	---	---	1.90	1.09	0.582	0.728	0.333	0.315	0.317	---	---	---	1935
1936	---	---	---	3.01	0.981	0.632	0.132	0.089	0.247	0.198	0.178	0.100	---	1936
1937	---	---	---	2.70	2.49	0.470	1.18	0.501	0.245	0.304	---	---	---	1937
1938	---	---	0.817	1.62	3.23	0.811	0.227	0.187	0.113	0.191	0.172	---	---	1938
1939	---	---	---	0.628	0.636	0.530	0.127	0.128	0.141	0.202	0.204	---	---	1939
1940	---	---	---	0.840	0.738	0.803	0.204	0.142	0.231	0.302	0.781	0.247	---	1940
1941	0.188	0.151	0.187	2.85	0.885	1.30	0.208	0.188	4.45	1.71	0.364	0.215	1.01	1941
1942	0.082	0.158	1.66	2.23	2.32	0.891	0.278	0.788	2.07	0.659	0.372	0.197	0.943	1942
1943	0.186	0.197	0.158	3.34	2.53	3.33	0.727	0.298	0.372	0.358	0.383	0.175	1.00	1943
1944	0.148	0.186	0.170	1.74	1.46	2.84	0.604	1.88	1.11	0.879	1.62	0.322	1.02	1944
1945	0.228	0.208	3.16	2.31	1.73	0.807	1.58	0.828	3.17	0.781	0.438	0.228	1.29	1945
1946	0.223	0.212	1.66	1.52	1.27	0.471	0.821	0.175	0.404	0.605	0.389	0.246	0.686	1946
1947	0.246	0.250	0.275	1.37	1.58	3.33	0.303	0.805	1.02	1.31	0.486	0.313	0.821	1947
1948	0.271	0.238	0.310	4.81	1.45	0.878	1.22	1.34	0.235	0.250	0.384	0.298	0.955	1948
1949	0.288	0.248	0.284	3.24	1.47	0.542	0.487	0.471	0.286	1.02	0.775	0.308	0.780	1949
1950	0.243	0.245	0.314	3.95	5.19	2.13	1.81	0.414	2.43	1.85	0.568	0.308	1.87	1950
1951	0.263	0.230	0.209	3.23	1.80	0.488	0.232	0.708	0.830	0.529	0.312	0.202	0.757	1951
1952	0.152	0.145	0.184	0.951	0.859	0.883	0.836	0.238	0.188	0.260	0.325	0.217	0.601	1952
1953	0.192	0.191	0.388	1.03	1.83	1.33	0.137	0.038	0.108	---	---	---	---	1953
MEAN	0.188	0.188	0.883	2.23	1.74	1.05	0.883	0.428	0.783	0.577	0.518	0.244	0.953	MEAN

LOCATION - LAT 48 59 35 N DRAINAGE AREA, 215 km² INTERNATIONAL GAUGING STATION
LONG 95 55 04 W NATURAL FLOW

PINE CREEK NEAR PINE CREEK - STATION NO. 05DD032

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1928	---	---	---	---	1928
1929	---	3.288 ON APR 8	---	---	1929
1930	---	12.7 ON MAY 13	---	---	1930
1931	6.48 AT 21:30 CST ON APR 7	6.00 ON APR 7	---	---	1931
1932	7.259 AT 23:00 CST ON APR 10	5.998 ON APR 10	---	---	1932
1933	14.2 AT 12:00 CST ON MAY 25	13.0 ON MAY 25	---	---	1933
1934	---	1.988 ON APR 8	---	---	1934
1935	4.08 AT 17:30 CST ON APR 27	3.88 ON APR 27	---	---	1935
1936	14.6 AT 13:00 CST ON APR 17	12.7 ON APR 17	---	---	1936
1937	13.6 AT 23:00 CST ON MAY 1	13.1 ON MAY 1	---	---	1937
1938	10.3 AT 11:00 CST ON MAY 10	10.0 ON MAY 10	---	---	1938
1939	1.38 AT 16:00 CST ON APR 27	1.36 ON APR 27	---	---	1939
1940	1.67 ON MAY 1	1.56 ON APR 30	---	31 800	1940
1941	20.0 AT 12:00 CST ON SEP 25 *	18.8 ON SEP 25 *	0.0318 ON DEC 31	28 700	1941
1942	13.1 AT 20:00 CST ON APR 29	11.6 ON APR 30	0 ON JAN 5 *	31 500	1942
1943	11.3 AT 01:00 CST ON APR 9	11.0 ON APR 9	0.1258 ON MAR 16	32 100	1943
1944	7.73 AT 07:00 CST ON JUN 8	7.90 ON JUN 8	0.1258 ON JAN 5	40 800	1944
1945	16.1 AT 04:00 CST ON MAR 28	14.2 ON MAR 28	0.1988 ON JAN 29	21 700	1945
1946	---	7.50E ON MAR 22	0.139 ON AUG 5	29 000	1946
1947	16.7 AT 15:00 CST ON JUN 11	14.4 ON JUN 11	0.215 ON JUL 23	30 200	1947
1948	---	15.7 ON APR 19	0.201 ON SEP 29	24 800	1948
1949	10.8 AT 20:00 CST ON APR 10	9.06 ON APR 10	0.170 ON OCT 4	52 800	1949
1950	17.9 AT 04:00 CST ON APR 24	14.3 ON APR 24	0.2278 ON JAN 23	23 900	1950
1951	7.70E ON APR 8	7.36E ON APR 7	0.139 ON JUL 26	12 700	1951
1952	3.78 AT 13:00 CST ON JUL 5	2.72 ON JUL 5	0.130 ON SEP 21	---	1952
1953	3.85 AT 20:00 CST ON MAY 13	3.46 ON MAY 13	0 ON AUG 19	---	1953
				30 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PINE CREEK NEAR PINE CREEK STATION - STATION NO. 05LL007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	5.783	2.58	1.75	0.724	0.450	0.301	0.835	1.47	---	---	1.46	1959
1960	---	---	0.142	8.56	1.65	0.931	0.443	0.446	0.378	0.501	---	---	2.79	1960
1961	---	---	0.972	3.28	1.72	0.524	0.301	0.126	0.348	0.489	---	---	1.38	1961
1962	---	---	0.118	3.57	1.60	1.45	0.484	0.395	0.337	0.513	---	---	1.67	1962
1963	---	---	1.23	1.94	1.20	2.36	0.980	0.425	0.373	0.487	---	---	1.68	1963
1964	---	---	0.142	2.84	1.45	1.16	0.784	0.392	0.611	0.958	---	---	1.39	1964
1965	---	---	0.335	5.81	1.79	1.41	0.955	0.401	1.04	0.703	---	---	2.32	1965
1966	---	---	0.688	3.20	1.84	0.805	0.515	0.782	0.740	0.850	---	---	1.62	1966
1967	---	---	0.107	4.05	1.28	0.673	0.404	0.240	0.153	0.892	---	---	1.52	1967
1968	---	---	1.14	2.00	1.19	0.497	0.552	1.17	0.829	0.879	---	---	1.20	1968
1969	---	---	0.012	5.18	1.78	1.14	2.18	0.833	0.433	0.782	---	---	2.00	1969
1970	---	---	0.391	7.21	4.65	1.48	1.32	0.526	0.990	0.723	---	---	3.42	1970
1971	---	---	0.544	4.44	1.69	1.67	1.17	0.363	0.328	1.22	---	---	2.12	1971
1972	---	---	1.00	3.15	1.67	1.37	0.611	0.820	0.388	0.441	---	---	1.79	1972
1973	---	---	0.540	0.883	1.60	1.22	0.845	0.676	0.509	0.721	---	---	1.01	1973
1974	---	---	0.011	5.86	4.00	0.867	0.237	0.137	0.476	0.485	---	---	2.94	1974
1975	---	---	0.473	3.48	2.32	0.983	0.381	1.35	1.73	0.795	---	---	1.80	1975
1976	---	---	0.584	8.50	0.956	0.641	0.281	0.152	0.218	0.775	---	---	2.69	1976
1977	---	---	0.661	1.28	2.30	1.11	0.804	0.585	1.26	0.857	---	---	1.34	1977
1978	---	---	0.388	3.50	1.87	1.18	---	---	---	---	---	---	1.87	1978
1979	---	---	0.463	8.14	4.44	1.46	---	---	---	---	---	---	3.80	1979
1980	---	---	0.442	1.94	0.852	0.388	---	---	---	---	---	---	0.901	1980
1981	---	0.278	0.707	0.869	0.953	0.988	---	---	---	---	---	---	0.678	1981
1982	---	---	0.807	3.01	1.22	0.800	---	---	---	---	---	---	1.38	1982
1983	---	---	0.341	5.84	1.42	1.11	---	---	---	---	---	---	2.11	1983
1984	---	---	0.884	1.45	1.27	0.975	---	---	---	---	---	---	1.14	1984
MEAN	---	0.278	0.822	3.93	1.88	1.08	0.719	0.509	0.819	0.712	---	---	1.84	MEAN

LOCATION - LAT 50 03 40 N
LONG 98 58 49 W
DRAINAGE AREA, 835 km^2
NATURAL FLOW

PINE CREEK NEAR PINE CREEK STATION - STATION NO. 05LL007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	7.188 ON MAR 30	0.1138 ON MAR 1	15 400	1958
1980	---	32.3 ON APR 12	0.1428 ON MAR 1	29 400	1980
1981	---	3.85 ON APR 23	0.2838 ON MAR 1	14 500	1981
1982	---	13.1 ON APR 20	0.1138 ON MAR 1	17 800	1982
1983	---	6.28 ON JUN 11	0.1708 ON MAR 1	17 700	1983
1984	---	6.578 ON APR 14	0.1428 ON MAR 1	14 600	1984
1985	---	43.8 ON APR 14	0.2838 ON MAR 1	24 500	1985
1986	---	10.6 B ON APR 1	0.2102 ON MAR 1	17 100	1986
1987	---	8.988 ON APR 15	0.0888 ON MAR 1	15 000	1987
1988	---	5.528 ON MAR 28	0.292 ON JUN 28	12 700	1988
1989	---	29.7 ON APR 14	0.0048 ON MAR 28	21 100	1989
1970	---	40.5 ON APR 28	0.3918 ON MAR 1	35 000	1970
1971	---	13.3 ON APR 10	0.5448 ON MAR 1	22 400	1971
1972	---	8.438 ON APR 12	0 B ON MAR 1 *	15 800	1972
1973	---	3.85 ON MAY 7	0.0288 ON MAR 1	10 600	1973
1974	---	26.1 ON APR 20	0.0118 ON MAR 1	31 000	1974
1975	---	10.5 B ON APR 15	0.4738 ON MAR 1	19 000	1975
1976	---	21.5 B ON APR 8	0.388 ON JUN 6	28 300	1976
1977	---	5.80 ON MAY 22	0.215 ON JUN 11	14 100	1977
1978	---	7.088 ON APR 11	0.3148 ON MAR 1	17 800	1978
1979	---	44.3 B ON APR 22 *	0.4288 ON MAR 1	38 000	1979
1980	---	3.238 ON APR 8	0.247 ON JUN 21	9 490	1980
1981	1.67 AT 10:10 CST ON JUN 17	1.37 ON JUN 19	0.5288 ON MAR 8	9 250	1981
1982	---	7.808 ON APR 15	0.4258 ON MAR 1	14 500	1982
1983	---	17.8 B ON APR 10	0.3058 ON MAR 25	22 200	1983
1984	3.238 AT 06:23 CST ON MAR 27 *	3.158 ON MAR 27	0.4128 ON MAR 1	12 100	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		19 400	MEAN

PINE RIVER NEAR PINE RIVER - STATION NO. 05LG001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	0.982	6.18	9.13	2.32	0.969	2.08	1.85	---	---	---	1954
1955	---	---	---	1.84	3.68	1.43	0.315	0.020	0.074	0.143	---	---	---	1955
1956	---	---	---	0.082	3.32	2.94	1.88	0.204	0.326	0.311	---	---	---	1956
1957	---	---	0	1.26	3.54	0.457	0.177	0.082	0.127R	0.123R	---	---	0.732R	1957
1958	---	---	0.100	0.803	0.380	0.226	1.76	0.289	1.16	0.728	---	---	0.652	1958
1959	---	---	0.208	0.614	1.67	3.80	1.33	0.145	2.83	1.69	---	---	1.50	1959
1960	---	---	0.028	1.38	5.29	3.02	0.782	0.288	0.185	0.280	---	---	1.40	1960
1961	---	---	0.028	0.127	0.315	0.072	0.013	0.004	0.014	0.109	---	---	0.085	1961
1962	---	---	0.028	0.481	0.622	0.448	0.154	0.126	0.379	0.237	---	---	0.305	1962
1963	---	---	0.024	1.11	2.35	2.03	0.441	0.051	0.095	0.104	---	---	0.772	1963
1964	---	---	0.177	0.578	1.45	0.131	0.061	0.053	0.062	0.109	---	---	0.328	1964
1965	---	---	0.087	0.541	4.29	1.73	1.18	1.72	1.88	0.587	---	---	1.60	1965
1966	---	---	0.157	0.614	4.83	3.81	1.81	0.781	0.078	0.157	---	---	1.51	1966
1967	---	---	0.234	0.976	5.22	2.08	0.621	1.01	0.197	0.496	---	---	1.36	1967
1968	---	---	0.145	0.584	1.58	1.38	1.48	2.50	0.804	0.438	---	---	1.08	1968
1969	---	---	0.181	2.10	1.85	1.30	1.85	0.805	1.09	2.80	---	---	1.47	1969
1970	---	---	0.317	1.21	7.07	2.88	4.31	1.28	0.984	2.18	---	---	2.52	1970
1971	---	---	0.198	3.22	1.98	2.91	2.19	0.745	0.213	1.80	---	---	1.82	1971
1972	---	---	0.152	2.03	4.88	1.23	0.870	0.215	0.154	0.185	---	---	1.21	1972
1973	---	---	0.067	0.433	1.75	5.37	2.48	0.639	1.88	0.725	---	---	1.85	1973
1974	---	---	0.228	3.10	7.52	2.74	0.813	0.880	1.75	0.970	---	---	2.22	1974
1975	---	---	0.122	1.49	5.72	3.78	0.881	0.411	1.81	1.88	---	---	1.98	1975
1976	---	---	0.178	3.49	2.04	6.70	1.51	0.673	0.201	0.174	---	---	1.85	1976
1977	---	---	0.100	1.08	1.28	0.285	1.87	1.02	3.58	2.13	---	---	1.39	1977
1978	---	---	0.114	0.932	1.41	1.43	0.455	0.110	0.546	0.662	---	---	0.702	1978
1979	---	---	0.149	0.681	6.84	3.23	0.575	0.458	0.478	0.475	---	---	1.83	1979
1980	---	---	0.252	1.94	0.599	0.319	0.264	2.45	0.480	0.545	---	---	0.851	1980
1981	---	---	0.353	0.511	0.785	2.54	0.518	0.238	0.150	0.503	---	---	0.695	1981
1982	---	---	0.033	0.781	0.955	0.402	2.82	0.741	0.389	1.25	---	---	0.898	1982
1983	---	---	0.101	1.12	5.64	2.30	2.21	0.632	0.465	0.808	---	---	1.64	1983
1984	---	---	0.123	1.23	3.03	5.28	1.35	0.656	0.784	1.59	---	---	1.77	1984
MEAN	---	---	0.138	1.17	3.31	2.43	1.24	0.849	0.798R	0.813R	---	---	1.27	MEAN

LOCATION - LAT 51 49 00 N
LONG 100 32 00 W

DRAINAGE AREA, 210 km^2
NATURAL FLOW

R - REVISED SINCE JAN 1980

PINE RIVER NEAR PINE RIVER - STATION NO. 05LG001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	24.1 ON MAY 28	0 B ON APR 1 *	---	1954
1955	---	13.6 ON MAY 4	0 ON AUG 12	---	1955
1956	---	9.03 ON JUN 28	0 B ON APR 1	---	1956
1957	---	12.6 ON MAY 1	0 B ON MAR 1	15 500R	1957
1958	13.6 AT 09:00 CST ON JUL 5	10.7 ON JUL 7	0 B ON MAR 1	13 800	1958
1959	19.8 AT 15:00 CST ON JUN 27	16.8 ON JUN 28	0 B ON MAR 22	31 600	1959
1960	13.1 AT 21:00 CST ON MAY 13	12.4 ON MAY 13	0 B ON MAR 1	29 700	1960
1961	---	0.450 ON MAY 7	0 B ON MAR 1	1 810	1961
1962	1.89 AT 00:25 CST ON MAY 31	1.85 ON MAY 31	0 B ON MAR 1	5 480	1962
1963	9.12 AT 20:30 CST ON MAY 13	7.93 ON MAY 14	0 B ON MAR 1	16 300	1963
1964	5.38 AT 18:40 CST ON MAY 8	4.84 ON MAY 9	0.020 ON JUL 27	6 940	1964
1965	18.3 AT 12:15 CST ON MAY 7	18.0 ON MAY 7	0.0718 ON MAR 1	31 700	1965
1966	13.5 AT 11:30 CST ON MAY 19	12.7 ON MAY 19	0.031 ON SEP 23	31 800	1966
1967	11.6 B AT 02:00 CST ON MAY 7	8.46 B ON MAY 7	0.099 ON SEP 7	28 700	1967
1968	8.30 AT 08:05 CST ON AUG 20	7.78 ON AUG 20	0.1108 ON MAR 1	23 100	1968
1969	14.5 AT 02:01 CST ON OCT 4	12.2 ON OCT 4	0.1818 ON MAR 1	31 200	1969
1970	25.7 AT 19:10 CST ON JUL 24	19.8 ON JUL 25	0.3178 ON MAR 1	53 200	1970
1971	12.5 AT 02:30 CST ON JUN 5	11.4 ON JUN 5	0.184 ON SEP 12	34 300	1971
1972	11.8 AT 01:30 CST ON APR 30	10.6 ON APR 30	0.122 ON AUG 27	28 700	1972
1973	28.4 AT 20:55 CST ON JUN 19	24.9 ON JUN 20 *	0.0258 ON MAR 1	35 000	1973
1974	20.5 AT 00:05 CST ON MAY 22	18.0 ON MAY 22	0.1988 ON MAR 30	45 900	1974
1975	13.1 AT 04:23 CST ON MAY 9	12.3 ON MAY 8	0.1228 ON MAR 1	41 600	1975
1976	28.2 AT 04:49 CST ON JUN 14	24.9 ON JUN 14	0.133 ON SEP 23	39 200	1976
1977	10.8 AT 05:11 CST ON SEP 26	10.1 ON SEP 26	0.0788 ON MAR 1	29 500	1977
1978	3.85 AT 22:00 CST ON APR 27	3.23 ON APR 28	0.048 ON AUG 12	14 900	1978
1979	25.3 AT 01:38 CST ON MAY 26	23.8 ON MAY 26	0.1338 ON MAR 1	38 700	1979
1980	9.37 AT 11:45 CST ON AUG 8	8.58 ON AUG 8	0.113 ON JUL 31	18 000	1980
1981	8.64 AT 11:36 CST ON JUN 18	7.50 ON JUN 18	0.075 ON SEP 11	14 700	1981
1982	21.5 AT 14:29 CST ON JUL 17	16.0 ON JUL 18	0.0208 ON MAR 1	19 000	1982
1983	14.3 AT 03:19 CST ON MAY 18	12.9 ON MAY 18	0.0888 ON APR 3	34 700	1983
1984	27.6 AT 09:11 CST ON JUN 23 *	24.3 ON JUN 23	0.0528 ON MAR 31	37 400	1984
				26 800R	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

PIPESTONE CREEK NEAR PIPESTONE - STATION NO 05NG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	3.25	0.528	---	---	---	---	---	---	---	1936
1943	---	---	---	23.0	1.73	1.24	0.387	0.104	0.058	0.095	---	---	---	1943
1944	---	---	0	0.480	0.247	0.857	0.801	0.171	0.180	0.097	---	---	---	1944
1945	---	---	1.35	1.02	0.523	0.612	0.917	0.150	0.030	0.107	---	---	---	1945
1946	---	---	---	7.89	0.758	0.335	2.52	0.161	0.035	0.328	---	---	---	1946
1947	---	---	0	14.7	2.55	7.71	3.81	0.584	0.318	0.244	---	---	---	1947
1948	---	---	---	---	10.2	1.61	0.983	0.580	0.188	---	---	---	---	1948
1949	---	---	0	7.85	0.781	2.52	0.400	0.408	0.051	0.222	---	---	---	1949
1950	---	---	0.868	11.3	5.90	2.58	3.28	3.32	0.574	0.388	---	---	---	1950
1951	---	---	0	11.8	8.77	0.928	0.867	0.238	0.248	0.581	---	---	---	1951
1952	---	---	0.289	6.73	0.983	0.486	0.515	0.138	0.879	0.185	---	---	---	1952
1953	---	---	---	8.10	1.61	12.0	4.32	0.765	0.121	0.317	---	---	---	1953
1954	---	---	0	3.50	2.47	14.8	24.0	2.44	2.49	4.83	2.71	---	---	1954
1955	---	---	---	23.9	30.8 R	16.5	7.84	1.07	1.26	0.143	---	---	---	1955
1956	---	---	---	17.5	7.18	1.96	2.06	0.747	0.223	1.51	1.37	1.06	---	1956
1957	1.02	1.02	1.55	5.34	2.33	0.771	0.425	0.170	3.00	1.78	0.335	0.089	1.46	1957
1958	0.005	0.001	1.11	8.52	0.896	0.072	0.110	0.027	0.020	0.580	0.254	0	0.796	1958
1959	0	0	0.834	0.548	0.133	0.045	0.023	0.005	0.252	0.115	0.111	0.045	0.159	1959
1960	0	0	0.011	5.91	0.836	0.387	0.144	0.118	0.133	1.05	0.373	0.113	0.813	1960
1961	0.048	0.047	0.407	0.721	0.238	0.073	0.022	0.003	0.002	0.005	0.039	0.088	0.138	1961
1962	0.055	0.057	0.058	0.882	0.078	0.427	0.090	0.228	0.007	0	0	0	0.185	1962
1963	0 R	0	1.29	0.597	0.405	0.996	0.859	0.489	0.251	0.280	0.442	0.320	0.497R	1963
1964	0.245	0.096	0.037	8.03	2.86	0.796	0.210	0.200	0.486	0.783	0.422	0.125	1.03	1964
1965	0.083	0.082	0.117	8.18	0.812	0.918	2.22	0.295	1.25	1.14	0.436	0.383	1.30	1965
1966	0.178	0.024	0.782	7.19	1.95	0.944	0.320	0.238	0.308	0.383	0.283	0.421	1.06	1966
1967	0.478	0.505	0.804	5.28	2.23	0.170	0.084	0.017	0.018	0.077	0.033	0.040	0.689	1967
1968	0.182	0.188	2.59	1.32	0.183	0.015	0.004	0.034	0.078R	0.054	0.050	0.088	0.286R	1968
1969	0	0	0	20.0 R	2.29	0.635	2.93	0.853	0.136	0.304	1.22	0.339	2.37 R	1969
1970	0.185	0.619	0.485	10.8	10.1	1.53	0.833	0.442	0.647	0.585	0.543	0.387	2.23	1970
1971	0.351	0.207	0.303	4.87	0.935	0.722	0.638	0.110	0.901	0.777	0.301	0.163	0.852	1971
1972	0.087	0.078	5.17	7.27	1.06	0.583	0.158	0.228	0.382	0.552	0.300	0.082	1.33	1972
1973	0.023	0.048	0.378	0.428	0.327	0.089	0.142	0.102	0.331	0.721	0.248	0.179	0.251	1973
1974	0.108	0.122	0.150	23.8	9.89	2.42	0.610	0.134	0.082	0.456	0.428	0.271	3.20	1974
1975	0.189	0.037	0.009	9.06	15.5	4.10	0.678	0.436	4.58	3.76	1.78	0.846	3.41	1975
1976	0.456	0.607	0.556	66.1	9.10	10.4	2.47	0.468	1.87	1.84	0.473	0.313	7.78	1976
1977	0.253	0.220	0.325	0.828	0.278	0.093	0.058	0.019	0.088	0.123	0.058	0.082	0.206	1977
1978	0.044	0.037	0.090	3.87	0.491	0.118	0.214	0.026	0.151	0.287	0.082	0.032	0.450	1978
1979	0.012	0.010	0.009	8.81	8.21	0.855	0.340	0.059	0.024	0.405	0.137	0.042	1.59	1979
1980	0.012	0.008	0.034	3.35	0.148	0.040	0.248	0.031	0.010	0.043	0.268	0.077	0.351	1980
1981	0.084	0.058	1.02	0.321	0.045	0.015	0.002	0.002	0.001	0.003	0.008	0.003	0.128	1981
1982	0	0	0.013	8.29	0.987	0.100	0.005	0.005	0.008	0.311	0.031	0.032	0.805	1982
1983	0.058	0.076	0.077	12.4	3.84	1.23	0.151	0.015	0.880	0.032	0.021	0.081	1.54	1983
1984	0.018	0.087	1.43	0.761	0.295	0.039	0.004	0.002	0.115	0.156	0.053	0.010	0.247	1984
MEAN	0.147R	0.143	0.804	9.00 R	3.58 R	2.17	1.58	0.383	0.537R	0.615	0.427	0.188	1.27	MEAN

R - REVISED SINCE JAN 1980

LOCATION - LAT 49 35 40 N, LONG 100 56 30 W
DRAINAGE AREA, 4 200 km^2
REGULATED

REMARKS - SOME FLOW WILL BYPASS THE GAUGE AT VERY HIGH STAGES. DATA PRIOR TO 1958 WERE PUBLISHED UNDER STATION NO. 05NG005

PIPESTONE CREEK NEAR PIPESTONE - STATION NO. 05NG003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	---	---	1936
1943	---	---	---	---	1943
1944	---	55.4 ON APR 10 2.94 ON JUN 28	0 B ON MAR 1 *	---	1944
1945	---	4.08 B ON MAR 23	---	---	1945
1946	---	28.2 B ON APR 1	0 ON SEP 21	---	1946
1947	---	36.2 ON JUN 27	0 B ON MAR 1	---	1947
1948	---	37.1 ON APR 23	---	---	1948
1949	---	26.1 ON APR 12	0 B ON MAR 1	---	1949
1950	---	32.3 ON APR 20	---	---	1950
1951	---	30.0 ON MAY 7	0 B ON MAR 1	---	1951
1952	---	18.0 ON APR 10	---	---	1952
1953	---	32.0 ON JUN 10	0 ON SEP 20	---	1953
1954	---	84.0 ON JUL 11	---	---	1954
1955	---	74.2 R ON MAY 7	---	---	1955
1956	---	44.2 ON APR 19	---	---	1956
1957	---	8.27 B ON APR 8	0 ON AUG 18	48 700	1957
1958	---	20.1 B ON APR 5	0 B ON JAN 7	25 100	1958
1959	---	2.94 ON SEP 7	0 B ON JAN 1	5 040	1959
1960	---	20.9 B ON APR 14	0 B ON JAN 1	25 700	1960
1961	---	0.9688 ON APR 11	0 ON AUG 18	4 360	1961
1962	---	4.18 ON AUG 11	0 ON OCT 1	4 910	1962
1963	---	9.51 B ON MAR 23	0 B ON JAN 1	15 700R	1963
1964	---	19.3 B ON APR 18	0.023 ON AUG 8	32 400	1964
1965	---	25.8 ON APR 19	0.051 ON AUG 22	41 100	1965
1966	---	24.1 B ON APR 5	0 B ON MAR 2	34 100	1966
1967	---	23.0 B ON APR 15	0.005 ON AUG 30	26 000	1967
1968	---	8.84 B ON MAR 28	0 ON JUN 20	12 500R	1968
1969	---	113 A ON APR 15	0 B ON JAN 1	74 800R	1969
1970	---	29.7 A ON MAY 1	0.0918 ON JAN 13	70 400	1970
1971	---	15.8 B ON APR 12	0.008 ON AUG 27	26 900	1971
1972	---	20.4 B ON MAR 25	0.0288 ON DEC 31	41 900	1972
1973	2.01 AT 21:40 CST ON OCT 21	1.89 ON SEP 27	0.0148 ON JAN 10	7 910	1973
1974	76.2 AT 08:00 CST ON APR 23 *	73.1 ON APR 23	0.040 ON SEP 25	101 000	1974
1975	55.2 AT 15:22 CST ON APR 30	54.1 ON APR 30	0 ON SEP 17	107 000	1975
1976	---	153 B ON APR 12 *	0.232 ON AUG 23	246 000	1976
1977	1.57 AT 08:45 CST ON APR 18	1.50 ON APR 18	0.004 ON AUG 29	5 500	1977
1978	---	8.75 B ON APR 13	0.017 ON SEP 3	14 200	1978
1979	51.2 B AT 08:17 CST ON APR 28	47.8 B ON APR 28	0.0058 ON APR 7	50 000	1979
1980	---	10.4 B ON APR 13	0.005 ON SEP 18	11 100	1980
1981	---	1.87 B ON MAR 18	0 ON AUG 11	4 080	1981
1982	37.8 AT 12:14 CST ON APR 18	34.6 ON APR 18	0 B ON JAN 1	25 400	1982
1983	34.4 AT 17:27 CST ON APR 25	33.8 ON APR 25	0.0028 ON DEC 13	46 600	1983
1984	6.758 AT 08:00 CST ON MAR 25	6.63 B ON MAR 25	0 B ON JAN 22	7 820	1984
				40 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

PIPESTONE CREEK NEAR THE SASKATCHEWAN BOUNDARY - STATION NO. 05NG024

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	---	---	---	---	---	---	0.002	0.400	0.033	0.088	---	1982
1983	0.068	0.036	0.085	13.1	3.04	0.551	0.028	0.128	0.436	0.001	0.002	0.272	2.01	1983
1984	0.113	0.073	0.262	0.089	0.030	0.001	0	0.080	0.218	0.075	0.005	0.003	0.092	1984
MEAN	0.091	0.055	0.159	5.10	1.53	0.278	0.014	0.085	0.218	0.159	0.013	0.121	1.05	MEAN

LOCATION - LAT 49 50 25 N, LONG 101 23 48 W
DRAINAGE AREA, 3 880 km^2
REGULATED

PIPESTONE CREEK NEAR THE SASKATCHEWAN BOUNDARY - STATION NO. 05NG024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1982	---	---	08 ON MAR 2 *	---	1982
1983	36.9 AT 00:35 CST ON APR 25 *	36.3 ON APR 24 *	0 ON JUL 29	42 800	1983
1984	2.888 AT 00:12 CST ON MAR 24	1.818 ON MAR 24	0 ON JUN 2	1 940	1984
				22 300	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PLEASANT VALLEY CREEK NEAR GRANDVIEW - STATION NO. 05LJ031

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.572	0.335	0.004	0	0	0	0.024	---	---	0.116	1964
1965	---	---	0	1.04	0.394	0.208	0.038	0.011	0.181	0.133	---	---	0.246	1965
1966	---	---	0.089	1.89	1.49	0.185	0.163	0.006	0.004	0.002	---	---	0.477	1966
1967	---	---	0	0.982	1.38	0.072	0.004	0.001	0	0.024	---	---	0.310	1967
1968	---	---	0.421	0.858	0.080	0.012	0.023	0.032	0.011	0.006	---	---	0.180	1968
1969	---	---	0	2.40	0.175	0.040	0.548	0.383	0.023	0.229	---	---	0.470	1969
1970	---	---	0.010	2.33	3.01	0.419	0.401	0.208	0.010	0.087	---	---	0.808	1970
1971	---	---	0.040	2.26	0.331	1.87	0.881	0.150	0	0.021	---	---	0.581	1971
1972	---	---	0.044	0.982	0.941	0.246	0.115	0.403	0.811	0.291	---	---	0.453	1972
1973	---	---	0.037	0.031	0.009	0.025	0.004	0.002	0.026	0.058	---	---	0.024	1973
1974	---	---	0	0.547	4.83	2.53	0.156	0.011	0.014	0.028	---	---	1.01	1974
1975	---	---	0.252	1.39	2.07	1.20	0.184	0.060	0.769	0.820	---	---	0.812	1975
1976	---	---	0.218	2.77	1.34	1.51	0.812	0.270	0.363	0.038	---	---	0.883	1976
1977	---	---	0.089	0.050	0.049	0.006	0.011	0.003	0.023	0.970	---	---	0.153	1977
1978	---	---	0.210	0.824	0.543	0.167	0.159	0.078	0.007	0.006	---	---	0.248	1978
1979	---	---	0.048	1.92	3.47	1.27	0.087	0.028	0.001	0.060	---	---	0.855	1979
1980	---	---	0.184	0.344	0.007	0.024	0	0.132	0.002	0.139	---	---	0.104	1980
1981	---	---	0.259	0.118	0.015	0.007	0.171	0	0.043	0.199	---	---	0.102	1981
1982	---	---	0.160	0.245	0.018	0.002	0	0.002	0.055	0.293	---	---	0.087	1982
1983	---	---	0.230	0.873	0.255	0.586	0.327	0.078	0.024	0.141	---	---	0.288	1983
1984	---	---	0.227	0.154	0.030	0.012	0.148	0.027	0.197	0.079	---	---	0.109	1984
MEAN	---	---	0.121	1.07	0.980	0.494	0.180	0.080	0.112	0.185	---	---	0.400	MEAN

LOCATION - LAT 51 06 18 N DRAINAGE AREA, 282 km²
LONG 100 52 57 W REGULATED SINCE 1972

PLEASANT VALLEY CREEK NEAR GRANDVIEW - STATION NO. 05LJ031

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	1.92 B ON APR 15	0 B ON MAR 1 *	2 450	1964
1965	---	3.31 ON APR 14	0 B ON MAR 1	5 300	1965
1966	---	4.19 B ON APR 5	0 B ON MAR 1	10 100	1966
1967	---	3.78 B ON APR 15	0 B ON MAR 1	6 550	1967
1968	---	1.95 B ON MAR 28	0 B ON MAR 1	3 820	1968
1969	---	8.86 B ON APR 15	0 B ON MAR 1	9 850	1969
1970	---	9.06 E ON APR 25	0 ON AUG 29	17 100	1970
1971	---	6.57 ON APR 12	0 ON AUG 30	14 000	1971
1972	---	3.03 B ON APR 17	0.028B ON MAR 1	9 590	1972
1973	0.705 AT 08:00 CST ON OCT 3	0.425 ON OCT 3	0 ON JUL 31	505	1973
1974	13.4 AT 10:43 CST ON MAY 22 *	11.8 ON MAY 23 *	0 B ON MAR 1	21 400	1974
1975	9.37 AT 17:00 CST ON APR 25	7.25 ON APR 25	0.008 ON AUG 18	17 200	1975
1976	4.42 AT 21:49 CST ON APR 8	3.68 ON APR 9	0.001 ON OCT 18	18 700	1976
1977	3.71 AT 21:11 CST ON OCT 11	3.43 ON OCT 12	0 ON JUL 4	3 240	1977
1978	2.82 AT 22:58 CST ON APR 17	2.21 ON APR 18	0.001 ON SEP 10	5 250	1978
1979	---	6.82 B ON APR 22	0 ON JUL 25	18 100	1979
1980	---	0.804A ON APR 14	0 ON MAY 15	2 200	1980
1981	13.3 AT 22:08 CST ON JUL 1	2.87 ON JUL 2	0 ON AUG 3	2 150	1981
1982	---	2.10 E ON OCT 1	0 ON JUN 17	2 050	1982
1983	8.76 B AT 18:40 CST ON APR 23	4.03 B ON APR 24	0 ON AUG 8	6 050	1983
1984	1.21 AT 21:41 CST ON MAY 3	0.855 ON JUL 30	0 ON JUN 29	2 310	1984
				6 470	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PLUM CREEK NEAR SOURIS - STATION NO. 05NG007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	4.00	14.4	12.3	6.15	4.05	3.76	2.88	1.76	1.25	---	1956
1957	0.293	0.170	0.312	4.01	4.70	3.57	2.03	1.57	1.23	1.55	0.885	0.010	2.38	1957
1958	0	0.086	0.073	3.20	2.58	0.577	0.189	0	0	0	0	0	0.819	1958
1959	0	0	0.095	0.070	0.013	0	0	0	0	0.004	0.028	0.008	0.023	1959
1960	0.004	0	0	1.20	0.945	0.583	0.078	0.008	0	0	0	0	0.349	1960
1961	0	0	0.010	0.082	0.030	0.003	0	0	0	0	0	0	0.013	1961
1962	0	0	0	0.080	0.009	0.003	0	0	0	0	0	0	0.011	1962
1963	0	0	0.005	0.011	0.015	0.398	0.020	0.004	0.001	0	0	0	0.058	1963
1964	0	0	0	0.359	0.225	0.007	0.003	0	0	0	0	0	0.074	1964
1965	0	0	0	0.451	0.184	0.142	0.228	0.128	0.280	0.202	0.088	0.041	0.188	1965
1966	0.003	0	0.037	0.935	3.12	0.907	0.338	0.215	0.081	0.019	0.012	0	0.708	1966
1967	0	0	0	0.587	0.580	0.488	0.138	0.002	0	0	0	0	0.217	1967
1968	0	0	0.088	0.077	0.001	0	0	0	0	0.005	0.010	0	0.021	1968
1969	0	0	0	5.88	12.1	1.82	2.00	1.43	0.959	0.818	0.877	0.387	3.09	1969
1970	0.124	0	0	0.897	11.5	5.39	2.95	1.90	1.94	1.22	1.21	0.284	3.24	1970
1971	0.048	0	0	0.984	3.05	2.85	1.87	0.557	0.523	0.824	0.217	0.018	1.34	1971
1972	0	0	0.218	2.03	3.87	1.68	0.551	0.188	0.132	0.082	0.030	0.001	1.10	1972
1973	0	0	0.017	0.026	0.089	0.032	0.009	0.004	0.005	0.017	0.013	0.001	0.025	1973
1974	0	0	0	1.47	15.0	5.57	0.966	0.483	0.505	0.543	0.362	0.187	3.20	1974
1975	0.050	0.001	0	1.11	15.2	5.93	3.09	2.03	2.98	4.96	4.29	3.28	4.92	1975
1976	2.80	1.85	0.760	55.4	28.8	8.54	5.58	1.27	1.15	0.845	0.588	0.244	12.7	1976
1977	0.033	0.001	0.064	0.804	0.746	0.215	0.091	0.005	0.115	0.037	0.024	0	0.258	1977
1978	0	0	0.013	0.496	0.255	0.085	0.110	0	0	0	0	0	0.119	1978
1979	0	0	0	0.443	3.18	2.88	0.358	0.017	0.082	0.056	0.036	0.007	0.871	1979
1980	0	0	0	0.151	0	0	0	0	0	0	0.013	0.012	0.019	1980
1981	0	0.032	0.007	0.001	0.001	0.004	0.001	0	0	0	0.001	0.001	0.002	1981
1982	---	---	0.074	0.526	0.188	0.135	0.009	0	0	0	---	---	0.115	1982
1983	---	---	0.003	0.422	0.056	0.157	0.096	0.027	0	0	---	---	0.094	1983
1984	---	---	0.008	0.007	0.037	0.008	0.001	0	0	0	---	---	0.007	1984
MEAN	0.128	0.077	0.083	2.95	4.24	1.97	0.925	0.482	0.478	0.485	0.398	0.219	1.28	MEAN

LOCATION - LAT 49 37 30 N DRAINAGE AREA, 6 530 km²
LONG 100 18 20 W REGULATED

PLUM CREEK NEAR SOURIS - STATION NO 05NG007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1956	---	22.3 ON JUN 22	---	---	1956
1957	---	8.52 ON APR 27	0.0288 ON MAR 13	50 500	1957
1958	---	4.22 ON APR 14	0 B ON MAR 4 *	17 300	1958
1959	---	0.708 ON MAR 31	0 ON MAR 1	479	1959
1960	---	5.24 B ON APR 11	0 B ON MAR 1	7 380	1960
1961	---	0.2188 ON APR 3	0 ON MAR 1	276	1961
1962	---	0.3238 ON APR 21	0 ON MAR 1	240	1962
1963	---	1.53 ON JUN 18	0 ON MAR 1	1 180	1963
1964	---	1.08 ON APR 18	0 ON MAR 1	1 580	1964
1965	---	1.19 ON APR 14	0 B ON MAR 1	4 200	1965
1966	---	4.33 ON MAY 5	0 B ON MAR 1	15 000	1966
1967	1.16 AT 16:00 CST ON APR 23	1.07 ON APR 24	0 B ON MAR 1	4 800	1967
1968	---	0.3858 ON MAR 24	0 B ON MAR 1	448	1968
1969	24.5 AT 17:06 CST ON MAY 1	24.4 ON MAY 2	0 B ON MAR 1	65 300	1969
1970	17.7 AT 17:41 CST ON MAY 16	17.6 ON MAY 16	0 B ON MAR 1	88 600	1970
1971	3.86 AT 15:41 CST ON JUN 16	3.94 ON JUN 16	0 B ON MAR 1	28 400	1971
1972	6.94 B AT 17:30 CST ON APR 15	6.09 B ON APR 15	0 B ON MAR 1	23 300	1972
1973	0.236 AT 15:08 CST ON MAY 13	0.215 ON MAY 13	0 B ON MAR 1	528	1973
1974	---	21.4 ON MAY 11	0 B ON MAR 1	87 700	1974
1975	32.0 AT 04:35 CST ON MAY 14 *	31.1 ON MAY 13	0 B ON MAR 1	104 000	1975
1976	---	152 ON APR 20 *	0 142 ON OCT 16	269 000	1976
1977	---	1.47 B ON APR 9	0 ON JUL 1	5 460	1977
1978	3.11 B AT 16:46 CST ON APR 7	2.01 B ON APR 7	0 B ON MAR 1	2 520	1978
1979	5.38 AT 18:17 CST ON MAY 31	5.30 ON JUN 1	0 B ON MAR 1	18 400	1979
1980	0.7378 AT 16:36 CST ON APR 10	0.5738 ON APR 10	0 B ON MAR 1	392	1980
1981	---	0.0348 ON MAR 12	0 ON MAY 21	37.5	1981
1982	3.66 B AT 14:25 CST ON APR 15	3.13 B ON APR 15	0 B ON MAR 1	2 430	1982
1983	1.47 B AT 21:25 CST ON APR 9	1.26 B ON APR 9	0 B ON MAR 1	2 000	1983
1984	0.2018 AT 08:00 CST ON MAR 28	0.0898 ON MAR 26	0 B ON MAR 1	159	1984
				27 200	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PLUM RIVER NEAR ROSENFELD - STATION NO. 05DC019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	9.32	1.06	0.065	0.308	0.002	0	0	---	---	1.38	1969
1970	---	---	---	---	---	---	---	---	---	---	---	---	---	1970
1971	---	---	0	18.8	5.72	10.4	---	---	---	---	---	---	2.19	1971
1972	---	---	0	17.5	0.205	0.183	0.041	0	0	0	---	---	0.889	1972
1973	---	---	1.28	4.30	0.076	0.001	0	0	0.001	0	---	---	0.385	1973
1974	---	---	0.483	0.036	0	1.85	0.020	0.002	0.570	0.340	---	---	4.82	1974
			0	27.5	11.1	0.375	0	0	0	0				
1975	---	---	0	2.54	0.808	0.127	0.058	0	0	0	---	---	0.438	1975
1976	---	---	0	10.9	0.057	0.958	0.014	0	0	0	---	---	1.48	1976
1977	---	---	0	0.072	0.205	0.154	0.013	0.005	0.057	0.035	---	---	0.071	1977
1978	---	---	0.053	7.91	0.277	0.561	0.040	0	0.178	0.025	---	---	1.11	1978
1979	---	---	0	35.6	3.49	0.836	0.228	0.017	0.001	0.018	---	---	4.83	1979
1980	---	---	0	1.89	0.005	0	0.098	0.001	0	0.005	---	---	0.221	1980
1981	---	---	1.06	0.152	0.109	0.032	0	0.002	0.005	0.109	---	---	0.185	1981
1982	---	---	0.388	5.76	0.080	0.179	0.070	0.005	0	0.055	---	---	0.807	1982
1983	---	---	1.96	7.37	0.080	0.082	0.032	0	0	0	---	---	1.18	1983
1984	---	---	0.114	0.295	0.018	0.020	0	0	0	0.005	---	---	0.058	1984
MEAN	---	---	0.334	9.44	1.66	0.978	0.061	0.002	0.054	0.044	--	---	1.33	MEAN

LOCATION - LAT 49 11 30 N DRAINAGE AREA, 782 km²
LONG 97 24 00 W NATURAL FLOW

PLUM RIVER NEAR ROSENFELD - STATION NO 05DC019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	53.8 B ON APR 11	0.8 ON MAR 1 *	29 200	1969
1970	---	---	---	---	1970
1971	---	76.7 B ON APR 18	0.8 ON MAR 1	45 500	1971
1972	186 AT 01 15 CST ON APR 12	152 B ON APR 11	0.8 ON MAR 1	14 800	1972
1973	---	15.8 B ON APR 14	0.8 ON MAR 1	8 150	1973
1974	20.4 AT 06 36 CST ON JUN 18	17.3 ON JUN 18	0.8 ON MAR 1	102 000	1974
	---	139 B ON APR 15			
1975	---	8.768 ON APR 17	0.8 ON MAR 1	8 230	1975
1976	78.8 B AT 15 41 CST ON APR 5	71.6 B ON APR 5	0.8 ON MAR 1	30 800	1976
1977	7.53 AT 01 40 CST ON MAY 30	4.47 ON MAY 30	0.8 ON MAR 1	1 510	1977
1978	---	39.9 B ON APR 9	0.8 ON MAR 1	23 500	1978
1979	217 AT 10 15 CST ON APR 20 *	197 ON APR 20 *	0.8 ON MAR 1	104 000	1979
1980	9.359 AT 13 15 CST ON APR 4	7.768 ON APR 5	0.8 ON MAR 1	4 880	1980
1981	---	2.508 ON MAR 14	0 ON MAY 1	3 920	1981
1982	---	32.7 B ON APR 14	0.8 ON MAR 1	17 000	1982
1983	32.2 B AT 17 15 CST ON APR 6	28.5 B ON APR 6	0.8 ON MAR 1	24 900	1983
1984	2.298 AT 15 10 CST ON MAR 31	1.678 ON MAR 31	0.8 ON MAR 1	1 200	1984
				28 100	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

POPLAR RIVER AT OUTLET OF WEAVER LAKE - STATION NO 05RE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	---	---	---	11.8	13.0	---	1967
1968	---	---	---	---	---	---	98.1	82.5	78.3	84.9	65.7	45.0	52.8	1968
1969	25.8	18.4	14.9	34.9	84.0	92.5	84.3	141	177	153	88.4	38.8	79.0	1969
1970	19.7	15.9	13.2	11.7	41.3	32.8	35.9	26.7	18.2	20.3	33.9	29.1	24.8	1970
1971	21.7	16.3	13.2	35.5	141	53.7	22.0	25.0	17.3	14.5	22.5	24.9	34.2	1971
1972	20.1	16.3	13.9	17.9	196	80.2	27.0	15.3	10.6	9.84	10.9	11.8	38.0	1972
1973	11.8	11.7	11.2	16.3	71.0	52.5	37.6	17.8	12.1	17.5	28.5	27.8	26.4	1973
1974	18.0	14.8	13.8	17.9	141	98.3	26.8	12.2	11.2	16.3	20.9	18.0	34.2	1974
1975	14.7	13.0	11.3	12.3	83.2	85.9	82.3	48.6	98.4	70.4	37.0	21.1	44.9	1975
1976	15.1	12.8	11.8	24.5	33.9	32.3	19.3	9.79	7.30	8.80	7.78	7.71	15.7	1976
1977	7.10	7.15	8.83	9.83	32.9	18.8	36.5	40.8	38.0	43.1	31.5	20.6	23.7	1977
1978	15.1	12.8	11.2	12.2	47.5	46.7	38.0	27.8	23.7	60.4	63.3	32.5	31.2	1978
1979	20.1	15.0	13.2	18.2	165	246	76.5	20.5	13.5	13.8	17.3	17.5	51.4	1979
1980	15.8	14.1	12.6	16.6	50.8	24.0	12.9	11.3	14.5	21.6	22.5	17.3	19.5	1980
1981	13.9	11.8	10.3	11.3	25.5	48.5	63.1	52.6	18.2	13.1	26.7	37.4	29.4	1981
1982	22.8	16.7	13.4	18.4	125	99.5	60.2	24.5	18.2	18.3	22.5	21.3	37.7	1982
1983	16.2	16.0	14.8	16.3	100	101	108	48.1	18.3	14.5	14.4	13.8	40.7	1983
1984	13.5	12.8	11.9	16.5	54.3	54.8	44.1	22.5	14.0	18.4	27.1	24.0	28.4	1984
MEAN	16.8	13.9	12.2	18.3	88.7	77.3	49.6	37.0	34.2	33.3	30.2	23.5	38.3	MEAN

LOCATION - LAT 52 48 40 N DRAINAGE AREA, 8 790 km²
LONG 96 45 10 W NATURAL FLOW

POPLAR RIVER AT OUTLET OF WEAVER LAKE - STATION NO 05RE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	---	---	---	1967
1968	189 AT 23:00 CST ON MAY 30	185 ON MAY 30	8.92 ON APR 5	1 880 000	1968
1969	230 AT 04:00 CST ON AUG 29	223 ON AUG 25	13.2 ON APR 7	2 490 000	1969
1970	53.5 AT 18:32 CST ON MAY 23	53.2 ON MAY 23	10.7 ON APR 20	782 000	1970
1971	175 AT 22:20 CST ON MAY 10	174 ON MAY 9	12.2 ON APR 11	1 080 000	1971
1972	243 AT 18:30 CST ON MAY 11	242 ON MAY 11	8.33 ON OCT 16	1 140 000	1972
1973	83.2 AT 10:00 CST ON MAY 22	85.2 ON MAY 21	10.9 ON MAR 22	834 000	1973
1974	161 AT 10:00 CST ON MAY 27	161 ON MAY 26	9.46 ON AUG 26	1 080 000	1974
1975	106 AT 11:34 CST ON SEP 22	103 ON SEP 13	10.5 ON APR 12	1 420 000	1975
1976	---	39.1E ON APR 29	5.72 ON OCT 4 *	498 000	1976
1977	56.9 AT 13:06 CST ON JUL 22	56.4 ON JUL 23	6.65 ON MAR 23	748 000	1977
1978	88.3 AT 11:13 CST ON MAY 30	84.3 ON MAY 30	10.8 ON MAR 28	963 000	1978
1979	311 AT 13:28 CST ON JUN 8 *	308 ON JUN 8 *	12.0 ON APR 13	1 820 000	1979
1980	89.7 AT 04:20 CST ON MAY 18	58.3 ON MAY 13	8.57 ON AUG 21	817 000	1980
1981	---	92.9A ON JUL 5	9.53 ON MAR 26	927 000	1981
1982	182 AT 11:36 CST ON MAY 15	157 ON MAY 15	11.8 E ON MAR 10	1 190 000	1982
1983	150 AT 01:28 CST ON MAY 30	144 ON MAY 30	13.4 ON OCT 17	1 280 000	1983
1984	73.6 AT 22:11 CST ON MAY 31	68.5 ON JUN 3	11.7 A ON MAR 27	835 000	1984
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 150 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX) E - ESTIMATED

PORTAGE DIVERSION NEAR OAKLAND - STATION NO 05LL018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	0	57.1	42.5	0	0	0	0	0	---	---	12.4	1970
1971	---	---	0	11.3	0	0	0	0	0	0	---	---	1.38	1971
1972	---	---	7.09	103	7.47	0	0	0	0	0	---	---	14.5	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	144	97.0	9.98	3.22	0	0	0	---	---	31.6	1974
1975	---	---	0	43.7	145	61.8	0.106	0	0	0	---	---	31.3	1975
1976	---	---	0	475	211	4.11	0	0	0	0	---	---	85.3	1976
MEAN	---	---	1.01	119	71.9	10.8	0.475	0	0	0	---	---	35.2	MEAN

LOCATION - LAT 50 08 30 N
LONG 98 22 50 W REGULATED SINCE 1970

REMARKS - LOCAL RUNOFF IS NOT INCLUDED ONLY DIVERTED FLOWS ARE MONITORED

PORTAGE DIVERSION NEAR OAKLAND - STATION NO 05LL018

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	284 AT 07:00 CST ON APR 28	282 ON APR 28	0 ON MAR 1 *	262 000	1970
1971	---	71.6 ON APR 19	0 ON MAR 1	29 200	1971
1972	---	237 ON APR 18	0 ON MAR 1	307 000	1972
1973	---	0 ON MAR 1	0 ON MAR 1	0	1973
1974	527 AT 04:00 CST ON APR 23	524 ON APR 23	0 ON MAR 1	589 000	1974
1975	256 AT 05:40 CST ON MAY 3	253 ON MAY 3	0 ON MAR 1	882 000	1975
1976	733 AT 12:30 CST ON APR 19 *	728 ON APR 19 *	0 ON MAR 1	1 810 000	1976
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		534 000	MEAN

PORTAGE DIVERSION NEAR PORTAGE LA PRAIRIE - STATION NO 05LL019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	0	57.1	42.4	0	0	0	0	0	---	---	24.8	1970
1971	---	---	0	12.1	0	0	0	0	0	0	---	---	2.96	1971
1972	---	---	7.59	102	7.78	0	0	0	0	0	---	---	28.9	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	143	93.6	10.4	3.43	0	0	0	---	---	61.5	1974
1975	---	---	0	43.8	144	83.5	0	0	0	0	---	---	33.9	1975
1976	---	---	0	489	198	2.29	0	0	0	0	---	---	168	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	1.62	0	0	0	0	0	0	---	---	0.399	1978
1979	---	---	0	85.6	147	34.2	0	0	0	0	---	---	31.6	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	---	---	---	---	---	---	0	1981
1982	---	---	0	14.0	0	0	---	---	---	---	---	---	3.45	1982
1983	---	---	0	85.8	5.83	0	---	---	---	---	---	---	15.2	1983
1984	---	---	0	0	0	0	---	---	---	---	---	---	0	1984
MEAN	---	---	0.506	84.2	42.6	7.36	0.312	0	0	0	---	---	28.8	MEAN

LOCATION - LAT 49 58 00 N
LONG 98 22 50 W REGULATED SINCE 1970

REMARKS - LOCAL RUNOFF IS NOT INCLUDED ONLY DIVERTED FLOWS ARE MONITORED

PORTAGE DIVERSION NEAR PORTAGE LA PRAIRIE - STATION NO. 05LL019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	---	282 E ON APR 29	0 ON MAR 1 *	282 000	1970
1971	---	76 5 ON APR 19	0 ON MAR 1	31 400	1971
1972	---	228 ON APR 16	0 ON MAR 1	305 000	1972
1973	---	0 ON MAR 1	0 ON MAR 1	0	1973
1974	---	515 ON APR 23	0 ON MAR 1	849 000	1974
1975	252 AT 03 10 CST ON MAY 3	244 ON MAY 3	0 ON MAR 1	853 000	1975
1976	---	736 E ON APR 19 *	0 ON MAR 1	1 780 000	1976
1977	---	0 ON MAR 1	0 ON MAR 1	0	1977
1978	59 5 AT 09 15 CST ON APR 11	30 0 ON APR 11	0 ON MAR 1	4 210	1978
1979	357 AT 07 42 CST ON APR 30 *	353 ON APR 30	0B ON MAR 1	852 000	1979
1980	---	0 ON MAR 1	0 ON MAR 1	0	1980
1981	---	0 ON MAR 1	0 ON MAR 1	0	1981
1982	142 AT 23 43 CST ON APR 17	142 ON APR 17	0B ON MAR 1	38 300	1982
1983	---	207 B ON APR 11	0B ON MAR 1	160 000	1983
1984	---	0 ON MAR 1	0 ON MAR 1	0	1984
				302 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

RAT CREEK NEAR MACDONALD - STATION NO. 05LL021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	6 39	2 01	0 103	0 002	0	0	0	---	---	1 05	1974
1975	---	---	0	0 991	0 413	0 074	0 021	0 003	0	0	---	---	0 188	1975
1976	---	---	0 002	2 95	0 083	0 032	0 001	0	0	0	---	---	0 375	1976
1977	---	---	0	0 002	0 009	0 003	0 002	0	0 001	0 004	---	---	0 003	1977
1978	---	---	0	0 715	0 090	0 047	0 108	0 002	0 001	0	---	---	0 119	1978
1979	---	---	0	5 94	2 49	0 243	0 002	0 001	0	0	---	---	1 07	1979
1980	---	---	0	0 183	0 001	0	0	0	0	0	---	---	0 022	1980
1981	---	0 030	0 035	0 029	0 030	0 017	0 001	0	0	0 017	---	---	0 015	1981
1982	---	---	0 033	0 388	0 221	0 054	0 180	0 004	0	0	---	---	0 105	1982
MEAN	---	0 030	0 008	1 95	0 594	0 084	0 033	0 001	0	0 002	---	---	0 327	MEAN

LOCATION - LAT 49 59 19 N DRAINAGE AREA, 300 km^2
LONG 98 27 51 W NATURAL FLOW

REMARKS - PUBLISHED AS "WILLOW BEND CREEK" PRIOR TO 1979. THE 1981 MAX AND MIN DAILY DISCHARGE OF 147 AND 0 m^3/s OCCURRED IN FEB

RAT CREEK NEAR MACDONALD - STATION NO. 05LL021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	34 0 B ON APR 18	0B ON MAR 1 *	22 300	1974
1975	---	5 15 ON APR 14	0B ON MAR 1	3 940	1975
1976	---	15 4 B ON APR 5	0B ON MAR 1	7 950	1976
1977	---	0 071 ON MAY 23	0B ON MAR 1	83 9	1977
1978	---	2 24 B ON APR 13	0B ON MAR 1	2 520	1978
1979	---	43 6 B ON APR 22 *	0B ON MAR 1	22 700	1979
1980	---	0 5788 ON APR 9	0B ON MAR 1	478	1980
1981	0 160 AT 00 00 CST ON MAY 29	0 086 ON MAY 29	0 ON APR 28	343	1981
1982	5 24 AT 22 30 CST ON JUL 26 *	1 42 ON JUL 29	0B ON MAR 1	2 210	1982
				8 940	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

RAT RIVER NEAR PYTTERBURNE - STATION NO. 05QE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	5.51	3.92	2.15	2.57	8.44	13.6	8.84	0.850	---	1912
1913	0.425	0.283	0.283	17.0	5.46	2.10	2.28	0.877	0.583	1.29	0.850	0.566	2.84	1913
1914	0.028	0.028	0.057	2.12	3.51	2.58	1.24	0.213	0.510	0.878	0.712	0.142	1.00	1914
1915	0	0	0.057	2.89	3.48	1.43	1.10	0.133	0.113	0.703	0.705	0.142	0.883	1915
1916	0.085	0.113	0.113	14.4	8.17	2.15	1.17	0.483	0.329	0.866	0.787	0.170	2.38	1916
1917	0.080	0.038	0.083	4.70	3.31	1.04	0.805	0.129	0.080	0.305	0.524	0.198	0.867	1917
1918	---	---	---	2.07	1.33	2.17	0.885	0.594	0.320	0.882	1.34	0.214	---	1918
1919	0.070	0	0.088	5.10	2.74	1.29	3.18	0.983	1.83	0.810	0.339	0.141	1.37	1919
1920	0.048	0.072	2.11	11.4	4.28	4.40	0.233	0.008	0.042	---	---	---	---	1920
1922	---	---	---	4.22	8.89	3.98	0.589	0.122	1.08	1.04	1.87	---	---	1922
1923	---	---	---	---	17.8 R	2.05	1.87	0.886	0.878	1.18	0.884	---	---	1923
1924	---	---	---	---	18.8	1.70	0.781	1.38	0.484	1.83	---	---	---	1924
1925	---	---	---	12.0	5.37	41.1	14.5	2.20	2.43	3.85	---	---	---	1925
1926	---	---	---	5.00	2.20	4.07	4.40	0.971	2.95	12.9	---	---	---	1926
1927	---	---	---	36.8	82.2	18.8	5.75	1.18	1.38	1.85	---	---	---	1927
1928	---	---	---	3.54	2.54	4.58	14.2	4.80	0.821	0.840	---	---	---	1928
1929	---	---	---	---	2.32	2.78	0.488	0.083	0.043	0.408	---	---	---	1929
1930	---	---	---	---	8.83	1.85	2.47	0.177	0.081	0.849	---	---	---	1930
1931	---	---	---	9.65	4.70	1.82	0.525	0.218	0.447	1.02	1.58	---	---	1931
1932	---	---	---	---	3.38	0.847	0.749	0.105	0.171	0.819	---	---	---	1932
1933	---	---	---	12.6	2.55	5.03	0.402	0.023	0.152	0.470	---	---	---	1933
1934	---	---	---	3.35	1.29	0.882	0.243	0.002	0.010	0.488	---	---	---	1934
1935	---	---	---	---	3.10	1.85	0.837	0.178	0.198	0.413	---	---	---	1935
1936	---	---	---	---	2.28	0.832	0.044	0	0.228	---	---	---	---	1936
1942	---	---	---	---	---	1.57	0.388	0.308	3.01	1.10	---	---	---	1942
1943	---	---	---	15.4	8.52	11.5	3.84	0.547	0.523	0.384	---	---	---	1943
1944	---	---	---	2.71	1.98	9.21	5.85	6.71	18.3	3.08	11.1	---	---	1944
1945	---	---	---	25.9	11.8	2.70	2.57	1.04	7.37	8.87	---	---	---	1945
1946	---	---	---	16.1	3.34	0.809	0.850	0.057	0.884	1.82	---	---	---	1946
1947	---	---	---	11.8	8.11	9.09	2.82	4.88	1.19	3.88	---	---	---	1947
1948	---	---	---	20.5	14.7	1.62	2.08	3.34	0.823	0.384	0.835	0.324	---	1948
1949	0.222	0.187	0.174	6.34	4.37	1.98	0.280	1.89	0.351	3.55	3.85	0.758	1.85	1949
1950	0.340	0.388	0.288	14.5	63.6	8.86	9.24	2.22	4.88	9.74	3.85	0.713	9.88	1950
1951	0.480	0.280	0.808	13.8	9.84	3.04	0.437	0.521	1.03	0.884	0.835	0.288	2.88	1951
1952	0.068	0.028	0.083	2.88	1.24	0.772	0.578	0.335	0.007	0.150	0.389	0.209	0.541	1952
1953	0.036	0.010	0.233	1.51	1.95	5.20	3.24	0.485	0.549	0.618	0.731	0.319	1.32	1953
1954	0.118	0.173	0.384	4.95	12.4	15.0	1.85	0.414	0.756	0.992	0.813	0.625	3.29	1954
1955	0.340	0.228	0.288	14.1	7.27	5.65	1.95	0.548	0.210	0.888	0.785	0.280	2.70	1955
1956	0.118	0.132	0.127	6.95	8.82	3.89	2.03	2.93	12.5	2.41	5.59	1.21	4.12	1956
1957	0.501	0.288	3.78	16.8	10.8	14.3	16.6	1.32	0.781	0.809	0.781	0.377	5.59	1957
1958	0.106	0.068	0.423	1.84	1.33	0.888	3.02	0.285	0.047	0.899	0.728	0.392	0.798	1958
1959	0.089	0.038	0.083	7.88	11.3	18.8	3.78	1.49	1.88	7.53	4.83	0.826	4.82	1959
1960	0.353	0.306	0.223	22.8	9.22 R	3.93	1.71	0.282	0.221	0.170	0.839	0.372	3.33 R	1960
1961	0.338	0.140	1.42	3.56	3.45	0.490	0.058	0.032	0.039	0.168	0.157	0.070	0.832	1961
1962	0.028	0.062	0.118	4.10	9.49	11.8	2.38	3.44	0.878	0.832	1.33	0.830	2.84	1962
1963	0.218	0.008	1.47	8.43	5.42	11.3	8.88	3.78	0.280	0.322	0.813	0.312	3.51	1963
1964	0.288	0.578	0.058	8.53	11.2	7.38	4.58	0.380	0.334	1.42	0.784	0.324	2.98	1964
1965	0.087	0.113	0.085	18.1	15.4	7.78	4.40	0.837	2.18	3.43	3.57	1.49	4.78	1965
1966	0.784	0.780	2.33	49.9	21.2	9.18	10.5	3.36	4.88	1.28	1.17	0.398	8.78	1966
1967	0.307	0.225	0.715	41.7	21.0	1.98	0.484	0.102	0.044	0.121	0.159	0.184	5.57	1967
1968	0.071	0.070	1.15	4.38	5.27	4.89	0.58	5.43	5.81	2.84	2.23	0.611	3.39	1968
1969	0.284	0.225	0.405	19.8	10.9	3.25	1.78	0.804	0.378	1.88	1.00	0.438	3.42	1969
1970	0.287	0.187	0.221	8.51	26.8	14.8	1.48	0.108	0.483	0.893	1.88	0.347	4.75	1970
1971	0.223	0.104	0.273	11.0	5.68	1.83	0.480	0.210	0.038	0.838	0.784	0.275	1.77	1971
1972	0.153	0.037	0.568	4.44	4.28	0.708	0.042	0.108	0.348	0.891	0.878	0.088	1.04	1972
1973	0.028	0.020	1.57	1.98	1.59	1.31	1.03	0.897	0.454	2.71	1.33	0.424	1.10	1973
1974	0.082	0.219	0.169	23.1	31.3	12.4	0.430	0.138	0.186	0.305	0.378	0.204	5.75	1974
1975	0.200	0.085	0.232	2.12	4.28	2.13	2.83	0.008	0.008	0.101	0.357	0.113	1.05	1975
1976	0.075	0.083	0.186	4.19	1.51	1.13	0.321	0.004	0	0.194	0.020	0	0.840	1976
1977	0	0	0.088	0.808	0.770	0.775	0.251	0.093	0.489	1.28	0.725	0.123	0.457	1977
1978	0.112	0.055	0.403	9.78	4.43	0.834	0.359	0.029	0.007	0.041	0.212	0.103	1.38	1978
1979	0.040	0.014	0.058	10.8	12.9	5.37	0.318	0.044	0.121	0.053	0.289	0.118	2.82	1979
1980	0.082	0.065	0.132	4.08	0.988	0.077	0	0	0.088	0.756	0.749	0.141	0.592	1980
1981	0.018	0.141	1.32	1.50	0.884	1.94	0.993	0.422	0.912	2.71	2.31	0.777	1.17	1981
1982	0.060	0.028	0.820	10.7	5.91	5.98	5.38	2.50	0.604	4.02	1.63	0.835	3.37	1982
1983	0.297	0.202	6.74	15.8	4.48	3.14	2.36	0.181	0.089	0.235	0.550	0.141	2.88	1983
1984	0.013	0.003	0.598	3.42	1.54	3.49	3.00	0.248	0.009	0.153	0.382	0.108	1.08	1984
MEAN	0.174	0.141	0.711	10.9	8.70 R	5.17	2.72	1.05	1.43	1.84	1.58	0.390	2.78	MEAN

LOCATION - LAT 49 27 42 N DRAINAGE AREA, 1 380 km²
LONG 97 00 26 W REGULATED SINCE 1959

R - REVISED SINCE JAN 1980

RAT RIVER NEAR OTTERBURNE - STATION NO. 05DE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	19.3 ON APR 23	0.2838 ON FEB 1	83 300	1913
1914	---	7.99 ON APR 23	0.0288 ON JAN 1	31 600	1914
1915	---	5.21 ON MAY 5	0 B ON JAN 1 *	27 600	1915
1916	---	29.2 ON APR 18	0.0888 ON JAN 1	75 600	1916
1917	---	7.31 ON APR 24	0.0288 ON FEB 11	30 600	1917
1918	---	3.78 ON JUN 11	---	---	1918
1919	---	7.828 ON APR 9	0 B ON FEB 1	43 100	1919
1920	---	17.0 ON APR 18	0 B ON JAN 21	---	1920
1922	---	15.0 ON MAY 25	---	---	1922
1923	---	95.7 R ON APR 26	---	---	1923
1924	---	---	---	---	1924
1925	---	88.1 ON JUN 12	---	---	1925
1926	---	18.2 ON OCT 27	---	---	1926
1927	---	130 ON MAY 14	---	---	1927
1928	---	22.8 ON JUL 26	---	---	1928
1929	---	---	---	---	1929
1930	---	---	0 ON SEP 8	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
1933	---	20.2 B ON APR 15	0 ON AUG 19	---	1933
1934	---	---	C ON AUG 3	---	1934
1935	---	---	---	---	1935
1936	---	---	0 ON JUL 14	---	1936
1942	---	---	---	---	1942
1943	---	24.8 ON APR 16	---	---	1943
1944	---	37.8 ON SEP 7	0 B ON APR 1	---	1944
1945	---	50.7 ON MAR 29	---	---	1945
1946	---	26.7 B ON MAR 31	---	---	1946
1947	---	17.8 ON AUG 21	---	---	1947
1948	---	63.7 ON APR 20	---	---	1948
1949	---	9.808 ON APR 7	0.082 ON JUL 18	61 400	1949
1950	---	185 ON MAY 6 *	0.2498 ON MAR 28	315 000	1950
1951	---	18.0 B ON APR 8	0.0878 ON DEC 30	84 000	1951
1952	---	3.80 ON APR 20	0 ON SEP 8	17 100	1952
1953	---	12.4 ON JUN 5	0 B ON FEB 11	41 700	1953
1954	---	31.1 ON JUN 14	0.0858 ON JAN 28	104 000	1954
1955	---	20.8 ON APR 25	0.021 ON AUG 25	85 300	1955
1956	---	27.8 ON APR 26	0.0288 ON MAR 30	130 000	1956
1957	---	32.3 ON JUN 30	0.0288 ON MAR 15	176 000	1957
1958	---	5.44 ON JUL 9	0.0288 ON FEB 3	25 200	1958
1959	---	51.0 ON JUN 13	0.023 ON AUG 9	152 000	1959
1960	---	38.0 ON APR 14	0.011 ON SEP 30	105 000R	1960
1961	---	6.088 ON MAR 26	0 B ON FEB 18	26 200	1961
1962	26.0 AT 08 00 CST ON MAY 29	25.7 ON MAY 29	0 B ON JAN 1	92 800	1962
1963	32.8 AT 05 00 CST ON JUN 29	32.0 ON JUN 29	0 B ON FEB 15	111 000	1963
1964	---	24.9 A ON MAY 8	0 B ON MAR 27	94 300	1964
1965	51.5 AT 23 00 CST ON APR 14	51.0 ON APR 14	0.0208 ON JAN 20	151 000	1965
1966	90.0 AT 09 30 CST ON APR 5	86.1 ON APR 5	0.2888 ON DEC 28	278 000	1966
1967	91.2 AT 17 30 CST ON APR 22 *	88.3 ON APR 22	0.014 ON OCT 17	175 000	1967
1968	16.4 AT 08 15 CST ON MAY 15	15.1 ON MAY 15	0.0148 ON FEB 25	107 000	1968
1969	---	40.8 ON APR 12	0.045 ON SEP 3	108 000	1969
1970	37.7 AT 04 00 CST ON MAY 18	36.5 ON MAY 18	0.005 ON AUG 28	150 000	1970
1971	---	27.9 B ON APR 11	0 ON SEP 29	55 700	1971
1972	---	10.5 B ON APR 16	0 B ON FEB 7	33 000	1972
1973	---	3.88 ON OCT 22	0.0108 ON FEB 11	34 700	1973
1974	---	87.2 A ON APR 24	0 B ON JAN 12	181 000	1974
1975	21.8 AT 15 00 CST ON JUL 1	18.5 ON JUL 1	0 ON AUG 22	33 000	1975
1976	---	5.55 ON APR 15	0 ON AUG 5	20 300	1976
1977	3.03 AT 03 17 CST ON MAY 31	2.38 ON MAY 31	0 B ON JAN 1	14 400	1977
1978	16.4 B AT 04 05 CST ON APR 12	15.3 B ON APR 12	0 ON AUG 31	42 400	1978
1979	43.9 B AT 20 55 CST ON APR 20	42.3 B ON APR 20	0 ON AUG 21	79 300	1979
1980	9.41 AT 22 43 CST ON APR 7	9.248 ON APR 7	0 ON JUL 5	18 700	1980
1981	3.538 AT 15 30 CST ON NOV 20	3.31 ON OCT 31	0.0028 ON JAN 14	37 000	1981
1982	21.4 AT 10 53 CST ON APR 15	20.8 ON APR 15	0.0058 ON FEB 14	108 000	1982
1983	28.1 B AT 03 44 CST ON APR 9	27.8 B ON APR 9	0 ON AUG 19	80 200	1983
1984	9.46 AT 18 37 CST ON JUN 9	8.28 ON JUN 9	0 B ON JAN 15	34 100	1984
				87 100R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

R - REVISED SINCE JAN 1980

RAT RIVER NEAR ST. MALO - STATION NO. 05OE002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.098	2.74	5.88	5.38	2.98	1.30	1.75	3.07	---	---	2.98	1959
1960	---	---	0.288	6.83	5.22	3.65	1.89	0.097	0.072	0.024	---	---	2.22	1960
1961	---	---	0.158	1.84	2.19	0.480	0.072	0.022	0.033	0.009	---	---	0.571	1961
1962	---	---	0.085	1.42	4.35	5.01	2.12	3.38	2.57	5.34	---	---	3.03	1962
1963	---	---	0.284	5.80	3.84	8.82	3.58	1.84	0.855	0.201	---	---	2.81	1963
1964	---	---	0.026	3.66	5.84	4.00	2.08	0.211	0.258	0.888	---	---	2.11	1964
1965	---	---	0.028	5.10	7.18	4.51	3.32	0.359	2.18	2.84	---	---	3.18	1965
1966	---	---	0.170	17.5	11.0	5.55	4.88	2.01	2.46	0.720	---	---	5.48	1966
1967	---	---	0.208	14.7	10.1	1.58	0.520	0.147	0	0.085	---	---	3.39	1967
1968	---	---	0.282	3.24	3.81	4.03	5.35	4.23	4.13	1.88	---	---	3.35	1968
1969	---	---	0.323	9.14	6.33	2.48	1.30	0.951	0.408	1.32	---	---	2.77	1969
1970	---	---	0.226	4.87	13.4	8.28	0.542	0.068	0.238	0.845	---	---	3.52	1970
1971	---	---	0.210	5.64	4.38	1.42	0.457	0.278	0.008	0.404	---	---	1.30	1971
1972	---	---	0.143	2.44	3.38	0.495	0.084	0.084	0.228	0.445	---	---	0.903	1972
1973	---	---	0.574	1.53	1.44	1.55	0.885	0.448	0.315	2.09	---	---	1.10	1973
1974	---	---	---	6.80	12.5	5.74	0.199	0.123	0.126	0.248	---	---	---	1974
1975	---	---	0.340	1.24	3.18	2.08	1.84	0.023	0.148	0.040	---	---	1.08	1975
1976	---	---	0.118	2.85	1.23	0.832	0.223	0.020	0.093	0.087	---	---	0.877	1976
1977	---	---	0.003	0.485	0.590	0.682	0.438	0.123	0.814	1.14	---	---	0.510	1977
1978	---	---	0.180	3.90	3.24	0.484	0.408	0.081	0.025	0.104	---	---	1.05	1978
1979	---	---	0.048	3.01	6.91	2.84	0.212	0.039	0.084	0.044	---	---	1.84	1979
1980	---	---	0.104	1.95	0.851	0.031	0.007	0.008	0.188	0.701	---	---	0.478	1980
1981	---	---	0.388	1.12	0.834	1.86	0.520	0.522	1.24	2.72	---	---	1.14	1981
1982	---	---	0.178	5.07	5.80	4.82	2.78	1.58	0.388	2.89	---	---	2.83	1982
1983	---	---	2.18	8.63	3.81	3.01	2.18	0.084	0.018	0.211	---	---	2.83	1983
1984	---	---	0.221	1.83	1.25	2.37	2.89	0.183	0.003	0.084	---	---	1.08	1984
MEAN	---	---	0.275	4.78	4.82	3.11	1.58	0.880	0.700	1.10	---	---	2.09	MEAN

LOCATION - LAT 49 19 04 N DRAINAGE AREA, 801 km²
LONG 98 58 39 W REGULATED SINCE 1959

RAT RIVER NEAR ST. MALO - STATION NO. 05OE002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	14.0 ON JUN 11	0.0288 ON MAR 1	83 300	1959
1960	---	13.5 ON APR 21	0 E ON AUG 14 *	47 000	1960
1961	---	4.84 ON APR 28	0.003 ON SEP 15	12 100	1961
1962	---	7.79 ON MAY 24	0.0458 ON MAR 1	84 100	1962
1963	---	16.7 ON JUN 26	0.0038 ON MAR 1	59 500	1963
1964	---	11.4 ON MAY 8	0.014 ON AUG 22	44 700	1964
1965	---	15.1 ON MAY 6	0.0288 ON MAR 1	87 300	1965
1966	---	28.6 ON APR 11	0.1708 ON MAR 1	118 000	1966
1967	---	28.9 ON APR 21 *	0 ON AUG 24	71 600	1967
1968	---	7.82 ON SEP 4	0.1428 ON MAR 1	70 800	1968
1969	---	17.3 ON APR 20	0.1388 ON MAR 1	58 600	1969
1970	---	16.9 ON MAY 16	0.005 ON AUG 24	74 600	1970
1971	---	9.15 ON APR 21	0 ON AUG 16	33 600	1971
1972	---	5.21 ON APR 23	0 E ON MAR 1	18 100	1972
1973	---	3.85 ON OCT 23	0 ON SEP 19	23 300	1973
1974	---	23.0 ON APR 25	0 ON AUG 10	---	1974
1975	---	5.75 ON APR 28	0.008 ON SEP 24	23 000	1975
1976	---	4.39 ON APR 21	0 ON JUL 13	14 300	1976
1977	---	1.84 ON OCT 4	0 E ON MAR 1	10 800	1977
1978	---	7.11 ON APR 19	0 ON AUG 15	22 200	1978
1979	19.2 B AT 14:19 CST ON APR 20 *	10.7 B ON APR 19	0 ON AUG 13	34 800	1979
1980	3.70 AT 08:00 CST ON APR 19	3.65 ON APR 19	0.004 ON JUL 27	10 100	1980
1981	3.57 AT 20:59 CST ON OCT 28	3.40E ON OCT 31	0.034 ON JUL 28	24 100	1981
1982	10.4 AT 10:15 CST ON APR 15	9.46 ON APR 15	0.0388 ON MAR 1	82 000	1982
1983	14.8 AT 21:00 CST ON APR 8	14.1 ON APR 12	0 E ON MAR 1	55 700	1983
1984	7.49 AT 08:29 CST ON JUL 9	6.84 ON JUL 8	0 ON SEP 18	22 800	1984
				44 200	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

RAT RIVER NEAR SUNDOWN - STATION NO. 05QE004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1950	---	---	0	7.86	2.58	3.22	0.899	0.606	0.214	0.389	0.670	0.358	---	1950
1951	0.278	0.052	1.09	2.24	2.17	0.360	0.239	0.089	0.120	0.280	0.211	0.160	0.808	1951
1952	0.233	0.203	0.288	2.77	7.05	4.93	1.54	2.17	0.812	0.416	0.584	0.580	1.80	1952
1953	0.198	0.080	1.45	5.09	3.44	5.80	1.86	0.955	0.240	0.942	0.241	0.241	1.72	1953
1954	0.173	0.102	0.108	4.80	4.45	4.78	0.578	0.173	0.612	0.869	0.422	0.145	1.44	1954
1955	0.152	0.186	0.144	3.43 *	5.79	2.88	2.67	0.593	2.28	3.58	1.10	1.00	1.89	1955
1956	0.575	0.449	1.33	10.7	9.11	1.80	5.82	0.492	1.51	0.531	0.432	0.292	2.77	1956
1957	0.226	0.076	0.508	11.7	4.40	0.482	0.437	0.222	0.030	0.255	0.250	0.278	1.57	1957
1958	0.184	0.121	0.882	3.40	3.12	4.02	3.35	2.90	1.97	1.16	0.739	0.337	1.85	1958
1959	0.248	0.331	0.386	8.55	2.87	2.71	0.938	0.525	0.316	0.938	0.590	0.388	1.40	1959
1970	0.263	0.234	0.310	7.88	10.7	4.82	0.416	0.103	0.622	1.03	1.18	0.300	2.28	1970
1971	0.126	0.084	0.116	5.68	2.87	1.17	0.909	0.237	0.161	0.550	0.589	0.276	1.03	1971
1972	0.158	0.158	0.441	4.94	2.40	0.328	0.159	0.548	0.591	0.699	0.709	0.118	0.934	1972
1973	0.114	0.133	1.16	1.28	1.36	2.04	0.615	0.732	0.909	1.68	0.988	0.372	0.951	1973
1974	0.177	0.229	0.278	10.4	10.8	3.20	0.283	0.075	0.19	0.413	0.411	0.295	2.22	1974
1975	0.289	0.210	0.294	1.73	3.17	2.00	0.668	0.052	0.082	0.244	0.330	0.087	0.783	1975
1976	0.181	0.097	0.218	3.36	0.955	0.983	0.184	0.034	0.019	0.076	0.070	0.119	0.509	1976
1977	0.005	0.015	0.322	1.10	0.766	0.703	0.315	0.148	0.880	1.15	0.787	0.741	0.581	1977
1978	0.243	0.158	0.271	5.93	2.38	0.313	0.463	0.087	0.152	0.283	0.187	0.111	0.951	1978
1979	0.051	0.048	0.183	5.82	4.03	2.18	0.220	0.045	0.184	0.285	0.294	0.216	1.11	1979
1980	0.126	0.054	0.189	2.24	0.761	0.129	0.098	0.052	0.604	0.858	0.427	0.178	0.466	1980
1981	0.158	0.307	0.843	0.945	1.08	1.80	0.423	0.558	2.52	2.54	1.18	0.447	1.03	1981
1982	0.093	0.072	0.388	5.43	3.33	1.88	1.28	0.988	0.292	2.42	0.880	0.860	1.48	1982
1983	0.274	0.286	1.11	4.02	4.08	2.59	1.75	0.512	0.341	0.681	0.373	0.227	1.36	1983
1984	0.113	0.132	0.577	1.88	0.885	4.00	0.755	0.134	0.041	0.935	0.438	0.136	0.805	1984
MEAN	0.193	0.158	0.508	4.85	3.78	2.31	1.07	0.520	0.620	0.935	0.568	0.329	1.32	MEAN

LOCATION - LAT 49 12 35 N DRAINAGE AREA, 414 km²
LONG 86 17 00 W NATURAL FLOW

RAT RIVER NEAR SUNDOWN - STATION NO 05QE004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1950	---	36.6 ON APR 14 *	0 B ON MAR 1 *	---	1950
1951	---	5.32 ON APR 22	0 B ON FEB 28	19 300	1951
1952	---	22.8 ON MAY 24	0.1058 ON MAR 25	56 700	1952
1953	---	13.1 B ON APR 10	0 B ON FEB 2	54 300	1953
1954	---	11.8 ON APR 19	0.0288 ON FEB 29	45 350	1954
1955	---	14.3 ON MAY 8	0.1138 ON APR 8	62 550	1955
1956	---	19.5 ON JUL 5	0.147 ON AUG 5	67 200	1956
1957	---	21.3 ON APR 22	0.014 ON SEP 11	49 650	1957
1958	---	11.4 ON JUN 12	0.0258 ON MAR 4	58 500	1958
1959	---	14.4 B ON APR 14	0.139 ON AUG 29	44 200	1959
1970	---	19.8 ON MAY 31	0.051 ON AUG 28	71 800	1970
1971	---	13.6 ON APR 13	0.057 ON AUG 15	32 500	1971
1972	---	12.3 ON APR 19	0.005 ON AUG 7	29 500	1972
1973	---	6.71 ON JUN 22	0.020 ON JUL 23	30 800	1973
1974	38.6 AT 12:10 CST ON APR 22 *	26.3 ON APR 22	0 ON JUL 26	69 500	1974
1975	7.48 AT 03:05 CST ON MAY 2	7.39 ON MAY 2	0 ON SEP 15	24 700	1975
1976	5.24 AT 06:18 CST ON APR 19	5.15 ON APR 19	0 ON AUG 24	18 100	1976
1977	3.34 AT 23:55 CST ON SEP 28	3.31 ON SEP 29	0.0038 ON JAN 11	18 700	1977
1978	12.9 AT 11:20 CST ON APR 20	12.4 ON APR 19	0.009 ON SEP 11	30 000	1978
1979	19.2 AT 14:19 CST ON APR 20	17.8 ON APR 20	0.001 ON AUG 15	35 000	1979
1980	6.958 AT 15:57 CST ON APR 9	5.098 ON APR 9	0 ON AUG 1	14 700	1980
1981	13.6 AT 13:10 CST ON SEP 9	13.1 ON SEP 9	0.071 ON AUG 20	32 500	1981
1982	20.3 B AT 18:11 CST ON APR 18	18.8 B ON APR 16	0.0618 ON FEB 18	46 500	1982
1983	12.8 B AT 23:46 CST ON APR 8	10.8 ON MAY 15	0.121 ON SEP 8	42 700	1983
1984	16.3 AT 13:16 CST ON JUN 11	15.8 ON JUN 11	0 ON SEP 24	25 500	1984
				41 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RED DEER RIVER NEAR THE MOUTH, LAKE WINNIPEGOSIS - STATION NO. 05LC004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1955	---	---	---	8.25	89.9	111	74.5	44.5	31.0	24.5	---	---	---	1955
1957	---	---	---	11.3	150	98.8	47.0	23.2	15.8	11.2	---	---	---	1957
1958	---	---	0	11.3	150	98.8	47.0	23.2	15.8	11.2	---	---	---	1958
1959	---	---	2.81	14.3	19.5	14.4	19.1	13.5	12.1	12.9	---	---	---	1959
	---	---	0.048	12.5	37.5	32.5	46.4	25.1	32.5	40.5	45.2	31.5	---	
1960	---	---	---	---	---	---	---	---	---	---	---	---	---	1960
1961	8.46	8.91	8.83	36.1	104	112	59.4	29.3	18.3	---	---	---	---	1961
1962	---	---	2.80	10.8	13.3	10.3	5.85	1.98	0.764	0.573	0.233	---	---	1962
1963	---	---	0	2.48	29.2	25.5	11.7	7.14	5.82	5.04	5.16	2.52	---	1963
1964	0.277	0	0	8.19	14.2	13.6	10.3	8.01	5.51	5.79	3.53	1.77	8.87	1964
	0.286	0.119	0.171	5.78	45.7	35.7	15.5	13.2	15.7	14.7	13.8	8.40	14.3	
1965	8.28	2.86	3.58	12.5	69.2	136	88.5	54.8	40.2	44.7	16.5	5.72	41.0	1965
1966	8.35	5.85	8.83	27.7	74.8	88.2	101	58.6	40.7	28.5	22.0	13.4	40.9	1966
1967	10.4	8.37	7.40	8.59	78.9	94.6	45.1	24.1	14.0	9.87	8.78	2.09	38.2	1967
1968	0.442	0.088	0.444	12.5	20.3	34.8	42.9	38.5	32.7	22.4	16.7	12.3	19.8	1968
1969	7.84	6.75	6.66	25.9	41.5	28.1	14.3	8.93	5.31	11.3	8.52	5.55	14.1	1969
1970	1.53	0.223	0.059	2.67	74.2	75.8	93.6	63.1	29.2	21.8	44.2	27.9	35.5	1970
1971	18.0	12.2	10.2	48.1	85.7	48.9	29.8	21.2	12.4	12.8	13.1	10.3	26.9	1971
1972	7.88	4.20	5.84	16.3	170	101	49.4	24.7	13.5	9.51	4.41	1.80	34.3	1972
1973	1.02	0.781	0.791	8.87	20.7	55.4	74.8	44.2	24.8	17.2	13.7	10.2	22.6	1973
1974	8.17	8.33	8.73	21.7	136	153	70.3	30.0	21.0	18.4	16.5	10.8	41.5	1974
1975	5.80	4.26	5.13	10.3	74.3	87.3	58.0	32.8	25.5	30.4	26.9	15.5	31.4	1975
1976	9.82	7.83	8.67	22.8	37.8	59.2	83.4	42.1	20.3	12.1	8.73	2.77	26.0	1976
1977	1.43	0.649	0.857	8.98	18.1	14.6	11.8	22.9	26.3	31.5	24.0	14.9	14.7	1977
1978	11.7	8.81	7.67	20.1	71.1	45.3	31.5	20.3	17.3	24.4	21.3	15.4	24.7	1978
1979	12.4	8.36	7.09	19.4	145	188	84.8	34.3	18.2	13.7	8.84	4.85	45.6	1979
1980	6.23	2.58	2.78	8.78	14.0	8.18	7.10	8.43	7.46	10.0	8.90	5.27	7.15	1980
1981	3.58	2.84	3.78	11.4	18.4	14.4	14.2	10.8	8.72	11.2	18.1	11.9	10.5	1981
1982	8.07	2.22	1.37	7.83	25.8	35.9	29.7	25.2	15.8	15.2	9.87	7.78	15.3	1982
1983	8.86	8.96	8.71	11.7	80.2	98.0	80.9	58.1	35.4	24.7	18.0	8.94	35.8	1983
1984	8.26	7.26	6.88	28.9	87.2	139	80.8	34.3	17.8	17.7	19.1	14.5	38.8	1984
MEAN	8.27	4.51	3.80	15.4	82.7	87.8	48.4	28.9	19.3	17.9	15.7	10.3	25.1	MEAN

LOCATION - LAT 52 52 45 N DRAINAGE AREA, 14 300 km²
LONG 101 02 35 W NATURAL FLOW

RED DEER RIVER NEAR THE MOUTH, LAKE WINNIPEGOSIS - STATION NO. 05LC004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1955	---	180 ON MAY 28	---	---	1955
1957	---	165 ON MAY 10	0 8 ON MAR 1 *	---	1957
1958	---	28.8 ON MAY 1	---	---	1958
1959	---	60.0 ON MAY 10	0 8 ON MAR 1	---	1959
1960	---	144 ON JUN 2	---	---	1960
1961	---	15.1 ON MAY 18	---	---	1961
1962	---	36.0 ON MAY 30	0 8 ON MAR 1	---	1962
1963	---	28.8 ON MAY 19	0 8 ON JAN 20	185 000	1963
1964	---	83.1 ON MAY 24	0.1138 ON JAN 21	461 000	1964
1965	---	176 ON JUN 8	2.31 8 ON FEB 25	1 290 000	1965
1966	---	113 ON JUL 21	5.16 8 ON JAN 1	1 290 000	1966
1967	---	137 ON MAY 23	0.9918 ON DEC 31	825 000	1967
1968	59.4 AT 05:50 CST ON JUL 8	64.9 ON JUL 8	0.0528 ON MAR 18	519 000	1968
1969	67.2 AT 17:30 CST ON MAY 7	51.8 ON MAY 7	3.20 E ON SEP 18	464 000	1969
1970	118 AT 09:00 CST ON JUL 22	115 ON JUL 23	0.0518 ON MAR 18	1 150 000	1970
1971	106 AT 13:48 CST ON MAY 6	101 ON APR 30	8.47 ON SEP 25	847 000	1971
1972	199 AT 10:30 CST ON MAY 15	197 ON MAY 15	1.22 8 ON DEC 28	1 080 000	1972
1973	104 AT 17:58 CST ON JUL 7	88.1 ON JUL 12	0.6578 ON MAR 1	739 000	1973
1974	192 AT 08:00 CST ON MAY 31	169 ON MAY 31	5.63 8 ON JAN 12	1 310 000	1974
1975	---	97.1 ON JUN 12	3.99 8 ON FEB 10	991 000	1975
1976	104 AT 18:15 CST ON JUL 5	103 ON JUL 5	2.27 8 ON DEC 30	821 000	1976
1977	41.6 AT 04:10 CST ON OCT 17	38.8 ON NOV 3	0.5808 ON FEB 3	485 000	1977
1978	82.7 AT 08:00 CST ON MAY 11	78.0 ON MAY 11	5.40 8 ON FEB 15	779 000	1978
1979	239 AT 12:03 CST ON JUN 6 *	223 ON JUN 6 *	3.85 8 ON DEC 19	1 440 000	1979
1980	36.3 AT 14:40 CST ON AUG 25	19.4 ON MAY 5	2.37 8 ON MAR 5	226 000	1980
1981	25.0 AT 19:00 CST ON NOV 7	20.9 ON NOV 13	1.74 ON SEP 20	332 000	1981
1982	63.9 AT 19:34 CST ON AUG 7	47.0 ON JUN 7	1.08 8 ON APR 2	483 000	1982
1983	121 AT 16:46 CST ON JUN 14	113 ON JUN 13	4.54 8 ON DEC 26	1 120 000	1983
1984	181 AT 00:52 CST ON JUN 1	151 ON JUN 11	5.11 8 ON JAN 1	1 320 000	1984
				822 000	MEAN

8 - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

RED RIVER AT EMERSON - STATION NO. 05DC001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	87.0	49.7	34.3	28.8	32.3	64.6	38.9	22.3	---	1912
1913	14.1	8.55	11.3	376	80.1	49.8	37.9	27.1	34.3	33.6	37.9	24.6	62.0	1913
1914	15.3	13.9	22.7	117	91.9	125	98.7	39.1	37.8	39.0	38.5	28.5	55.6	1914
1915	25.3	24.6	28.1	144	108	142	372	83.5	50.9	51.5	45.4	32.5	92.8	1915
1916	25.4	22.3	26.1	820	588	225	304	145	120	91.0	79.4	56.5	208	1916
1917	35.6	29.6	32.3	307	184	73.3	41.7	18.2	13.2	19.3	38.5	15.0	71.9	1917
1918	6.75	5.27	30.3	68.9	51.4	65.1	28.2	20.7	18.9	11.6	19.1	18.3	28.7	1918
1919	13.3	12.0	16.8	219	112	61.0	221	103	43.4	33.0	23.8	20.6	73.8	1919
1920	23.0	25.6	82.8	520	119	138	95.1	43.7	32.1	34.3	35.1	28.7	97.6	1920
1921	23.0	22.1	32.3	181	73.9	78.2	50.5	25.0	23.8	23.7	20.4	18.7	47.6	1921
1922	13.2	10.7	56.0	361	227	95.8	42.3	18.2	16.9	14.2	20.7	10.6	73.8	1922
1923	8.65	9.27	11.2	287	219	57.0	69.8	23.1	17.0	17.3	17.3	11.3	62.4	1923
1924	6.38	5.71	6.87	80.2	87.5	38.0	25.4	11.5	10.1	20.0	18.0	6.91	25.3	1924
1925	3.89	5.25	30.4	137	46.7	289	95.3	14.7	15.8	26.5	25.2	18.6	59.7	1925
1926	13.2	14.7	47.8	150	38.0	72.9	58.7	13.8	12.8	27.8	23.1	14.0	40.5	1926
1927	11.8	11.1	113	380	415	247	93.8	45.1	42.0	38.8	31.3	22.8	121	1927
1928	17.1	19.0	55.3	215	80.7	93.4	128	54.4	88.6	51.5	45.3	30.9	71.5	1928
1929	29.7	25.0	167	192	75.1	48.0	21.4	12.0	9.14	12.8	13.8	8.33	51.2	1929
1930	5.67	5.07	81.8	247	146	54.5	30.1	10.3	6.10	6.55	7.57	6.88	50.7	1930
1931	4.88	5.85	27.2	95.8	25.0	16.7	10.1	4.46	2.29	2.40	5.25	5.30	17.3	1931
1932	4.71	3.91	38.6	221	54.5	16.6	7.25	1.77	1.13	1.30	3.44	2.52	29.5	1932
1933	1.53	1.40	24.4	185	43.8	29.0	7.16	2.07	1.30	1.38	2.40	1.31	23.3	1933
1934	1.54	0.923	13.8	81.7	18.8	5.55	3.91	1.32	0.673	1.33	2.19	1.18	9.38	1934
1935	0.399	0.763	21.2	94.2	32.2	12.4	30.6	14.6	7.81	3.31	2.20	1.68	18.5	1935
1936	1.61	1.53	1.85	191	73.7	16.5	3.41	2.24	1.69	0.811	0.672	0.947	24.5	1936
1937	0.201	0.034	0.084	57.4	82.3	30.0	23.5	44.3	23.2	11.4	7.95	2.05	23.7	1937
1938	1.51	2.15	41.2	36.3	138	73.1	24.2	6.16	5.48	5.66	5.87	5.15	28.8	1938
1939	5.80	7.23	7.35	105	33.8	18.6	16.0	5.31	6.52	10.1	10.8	7.87	19.5	1939
1940	3.83	4.20	6.35	144	83.2	29.8	10.1	7.23	5.29	6.88	11.1	6.38	24.9	1940
1941	8.84	9.85	10.2	387	88.3	150	40.4	21.4	52.5	86.8	39.3	25.1	76.3	1941
1942	16.0	16.0	55.5	468	254	119	51.2	35.5	58.1	46.5	32.1	21.9	100	1942
1943	22.6	19.8	34.2	655	205	352	184	73.2	51.6	41.7	40.5	28.2	142	1943
1944	18.8	20.8	21.7	123	107	187	193	170	187	82.3	114	77.3	108	1944
1945	36.6	38.7	258	571	245	114	51.9	37.1	50.3	85.9	38.8	28.0	128	1945
1946	26.8	22.4	162	414	117	62.9	69.1	36.0	33.0	47.0	45.8	33.1	69.1	1946
1947	29.2	25.4	29.9	505	338	341	184	57.5	44.5	52.8	46.8	38.1	139	1947
1948	30.7	23.9	24.1	704	568	109	88.9	47.0	28.8	19.1	20.2	15.8	140	1948
1949	12.7	12.9	16.9	417	144	172	96.7	93.1	51.1	32.4	39.3	30.2	83.0	1949
1950	23.4	21.2	26.2	751	2 060	631	288	108	74.1	94.3	58.7	61.2	352	1950
1951	58.1	51.0	64.8	556	308	140	77.6	41.4	55.4	44.8	40.0	54.0	124	1951
1952	50.6	54.2	56.9	486	217	108	186	64.7	39.0	26.8	24.5	19.6	109	1952
1953	17.3	17.3	38.6	115	89.2	252	157	65.2	37.3	25.3	27.2	25.5	72.3	1953
1954	23.6	24.0	38.9	165	120	121	83.8	40.7	25.4	23.1	23.5	20.3	59.1	1954
1955	20.7	18.5	18.5	300	91.4	121	77.6	51.4	26.7	25.7	17.1	12.7	55.1	1955
1956	12.2	12.9	14.4	361	412	164	118	32.7	57.4	19.3	37.5	17.4	104	1956
1957	12.5	11.6	40.9	187	128	119	263	81.6	181	107	95.8	48.5	105	1957
1958	39.2	37.0	52.9	94.3	46.7	40.3	115	28.5	13.0	12.2	13.8	10.1	41.9	1958
1959	9.85	9.70	17.9	171	59.8	77.8	58.5	21.5	15.4	16.0	16.9	17.8	40.9	1959
1960	17.5	15.8	13.4	488	147	88.1	84.5	15.7	17.5	9.88	15.7	10.7	73.3	1960
1961	9.76	8.29	46.7	73.4	88.0	31.5	12.5	7.77	7.55	16.8	11.8	7.43	25.4	1961
1962	5.60	5.85	6.37	418	340	720	455	204	95.3	89.4	61.8	46.3	203	1962
1963	35.3	30.4	42.9	222	106	212	86.4	37.2	34.3	39.5	27.4	18.7	74.3	1963
1964	21.7	21.4	12.4	240	195	269	103	37.4	19.0	46.2	39.3	25.8	82.9	1964
1965	25.8	25.2	26.8	708	526	284	160	66.4	59.3	125	94.5	78.2	192	1965
1966	53.3	46.7	165	1 300	572	198	135	107	81.9	56.4	60.4	51.5	235	1966
1967	46.3	41.8	59.1	720	586	185	102	42.1	26.9	25.7	27.3	19.1	186	1967
1968	13.9	14.0	40.5	138	70.8	171	194	93.2	84.8	62.4	60.7	55.4	83.3	1968
1969	48.0	45.7	61.5	825	777	183	114	58.6	46.9	59.0	57.8	44.5	194	1969
1970	41.2	40.0	44.7	544	550	480	155	45.7	39.6	36.3	47.2	31.0	180	1970
1971	29.3	28.3	55.5	410	155	92.1	82.4	41.4	42.4	114	148	76.9	106	1971
1972	55.6	49.2	193	677	306	180	70.3	70.2	58.3	51.9	48.4	32.7	149	1972
1973	31.5	31.6	155	76.7	48.5	37.1	17.6	22.1	72.7	118	74.0	58.9	83.0	1973
1974	48.5	47.8	57.3	548	840	305	108	82.4	58.1	54.9	60.6	38.5	189	1974
1975	37.2	40.0	48.7	387	773	186	794	133	72.5	68.8	68.2	44.3	222	1975
1976	43.1	46.5	79.1	494	125	67.3	44.0	31.7	20.6	11.0	8.89	5.01	80.7	1976
1977	5.11	5.38	11.3	59.5	34.0	24.4	18.0	7.38	15.1	40.3	31.9	36.6	24.1	1977
1978	34.7	28.0	49.2	1 020	290	110	102	49.0	31.7	27.1	24.7	18.3	148	1978
1979	15.9	16.4	21.9	698 R	1 390	229	182	95.5	63.1	49.8	55.4	43.3 R	240 R	1979
1980	36.3	37.7	41.9	287	88.0	46.2	24.4	13.7	23.7	15.6	18.8	10.2	51.7	1980
1981	8.27	8.40	41.5	51.2	39.3	44.8	77.5	43.0	51.2	68.0	55.8	31.3	43.6	1981
1982	32.6	29.9	49.7	625	251	121	116	69.8	36.1	124	71.8	54.8	132	1982
1983	45.7	39.0	265	355	114	144	184	74.3	79.9	63.1	80.5	48.8	123	1983
1984	39.1	38.1	82.0	542	120	328	98.3	43.3	27.2	52.4	52.7	40.8	121	1984
MEAN	21.8	20.8	51.5	352 R	240	142	107	47.1	40.8	40.1	38.6	28.6 R	94.2	MEAN

LOCATION - LAT 49 00 30 N LONG 97 12 40 W DRAINAGE AREA, 104 000 km² REGULATED INTERNATIONAL GAUGING STATION R - REVISED SINCE JAN 1980

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	726 ON APR 11	7.36 B ON MAR 8	1 850 000	1913
1914	---	206 ON JUN 19	13.9 B ON FEB 1	1 780 000	1914
1915	---	569 ON JUL 9	21.0 B ON JAN 1	2 930 000	1915
1916	---	1 310 ON APR 24	21.4 B ON FEB 12	5 580 000	1916
1917	---	733 ON APR 12	8.50 B ON DEC 31	2 270 000	1917
1918	---	1418 ON APR 3	5.30 B ON JAN 31	905 000	1918
1919	---	375 ON JUL 11	11.3 B ON FEB 28	2 320 000	1919
1920	---	7568 ON APR 15	19.5 B ON JAN 1	3 090 000	1920
1921	---	382 ON APR 15	14.8 B ON NOV 24	1 500 000	1921
1922	---	535 ON APR 14	10.1 B ON FEB 17	2 330 000	1922
1923	---	736 ON APR 25	6.51 B ON JAN 7	1 970 000	1923
1924	---	179 ON APR 28	4.39 B ON DEC 31	831 000	1924
1925	---	496 ON JUN 21	3.54 B ON FEB 5	1 880 000	1925
1926	---	2278 ON APR 1	5.71 ON SEP 7	1 280 000	1926
1927	---	580 ON MAY 16	10.4 B ON FEB 4	3 620 000	1927
1928	---	476 ON APR 6	16.4 B ON JAN 5	2 250 000	1928
1929	---	544 ON APR 1	6.65 B ON NOV 30	1 610 000	1929
1930	---	589 ON APR 10	4.36 ON OCT 8	1 800 000	1930
1931	---	225 ON APR 10	1.04 ON OCT 5	546 000	1931
1932	---	5358 ON APR 15	0.880 ON SEP 29	934 000	1932
1933	---	3118 ON APR 9	0.708 ON SEP 5	736 000	1933
1934	---	1368 ON APR 13	0.4258 ON DEC 31	297 000	1934
1935	---	1558 ON APR 2	0.3408 ON JAN 3	585 000	1935
1936	---	510 ON APR 21	0.4818 ON DEC 17	774 000	1936
1937	---	185 ON MAY 6	0.0258 ON FEB 6 *	746 000	1937
1938	---	213 ON MAY 19	0.9638 ON JAN 7	912 000	1938
1939	---	1808 ON APR 10	3.34 ON AUG 18	814 000	1939
1940	---	4138 ON APR 21	2.69 B ON JAN 18	788 000	1940
1941	---	787 ON APR 15	7.50 B ON JAN 9	2 400 000	1941
1942	---	790 ON APR 10	13.4 B ON JAN 16	3 160 000	1942
1943	---	835 ON APR 20	16.5 B ON FEB 28	4 470 000	1943
1944	---	3468 ON APR 19	17.8 B ON JAN 2	3 400 000	1944
1945	---	8338 ON APR 4	25.5 B ON DEC 23	4 040 000	1945
1946	---	5828 ON APR 5	18.2 B ON FEB 23	2 810 000	1946
1947	---	804 ON APR 28	22.8 B ON FEB 27	4 390 000	1947
1948	---	1 470 ON APR 27	13.8 B ON DEC 31	4 420 000	1948
1949	---	827 ON APR 15	11.6 B ON JAN 20	2 930 000	1949
1950	---	2 670 ON MAY 13 *	18.7 B ON FEB 1	11 100 000	1950
1951	---	753 ON APR 15	32.0 B ON NOV 25	3 910 000	1951
1952	---	685 ON APR 24	17.0 B ON DEC 29	3 450 000	1952
1953	---	411 ON JUN 28	16.3 B ON JAN 18	2 280 000	1953
1954	---	3268 ON APR 17	18.1 B ON DEC 9	1 850 000	1954
1955	880 AT 04:00 CST ON APR 10	883 ON APR 10	10.8 B ON DEC 30	2 050 000	1955
1956	857 AT 07:00 CST ON APR 27	954 ON APR 28	10.6 B ON JAN 1	3 280 000	1956
1957	433 AT 03:00 CST ON JUL 5	433 ON JUL 4	10.3 B ON JAN 31	3 310 000	1957
1958	225 AT 08:00 CST ON JUL 12	223 ON JUL 13	5.78 B ON DEC 21	1 320 000	1958
1959	---	4458 ON APR 10	7.70 B ON JAN 1	1 290 000	1959
1960	884 AT 12:00 CST ON APR 13	884 ON APR 13	7.82 ON OCT 10	2 310 000	1960
1961	1228 AT 11:00 CST ON MAR 31	1218 ON MAR 30	3.45 ON SEP 7	800 000	1961
1962	946 AT 17:30 CST ON APR 25	943 ON APR 25	4.47 B ON JAN 28	5 390 000	1962
1963	391 AT 14:00 CST ON APR 13	388 ON APR 13	18.3 B ON DEC 5	2 340 000	1963
1964	---	486A ON JUN 25	10.3 A ON SEP 20	2 920 000	1964
1965	1 310 AT 06:00 CST ON APR 25	1 310 ON APR 25	24.8 B ON FEB 4	5 730 000	1965
1966	1 890 AT 15:00 CST ON APR 11	1 880 ON APR 11	40.5 B ON DEC 9	7 420 000	1966
1967	9518 AT 11:20 CST ON APR 9	940 ON APR 30	15.6 B ON DEC 24	4 900 000	1967
1968	---	394 ON JUL 24	11.4 B ON MAR 2	2 840 000	1968
1969	---	1 550 ON APR 25	31.7 B ON NOV 24	5 110 000	1969
1970	---	1 120 ON APR 29	26.5 B ON DEC 18	5 860 000	1970
1971	---	763 ON APR 15	24.4 ON OCT 2	3 340 000	1971
1972	---	859 ON APR 23	30.6 B ON DEC 11	4 700 000	1972
1973	4168 AT 12:40 CST ON MAR 27	4028 ON MAR 27	12.7 ON JUL 24	1 980 000	1973
1974	1 230 AT 14:39 CST ON APR 28	1 230 ON APR 28	33.7 B ON DEC 18	5 950 000	1974
1975	1 210 AT 03:14 CST ON MAY 8	1 210 ON MAY 7	27.8 B ON JAN 21	7 010 000	1975
1976	8328 AT 05:30 CST ON APR 6	868 ON APR 7	4.08 B ON DEC 15	2 550 000	1976
1977	130 AT 11:00 CST ON APR 10	128 ON APR 10	4.67 B ON MAR 9	761 000	1977
1978	1 430 AT 15:22 CST ON APR 18	1 420 ON APR 18	16.1 B ON DEC 19	4 670 000	1978
1979	2 830 AT 20:00 CST ON MAY 1 *	2 820 ON MAY 1	16.1 B ON FEB 8	7 580 000R	1979
1980	---	814 ON APR 10	8.84 B ON DEC 31	1 840 000	1980
1981	174 AT 13:00 CST ON JUL 4	173 ON JUL 4	8.97 B ON FEB 8	1 370 000	1981
1982	966 AT 22:53 CST ON APR 18	963 ON APR 18	27.6 B ON FEB 7	4 180 000	1982
1983	732 AT 00:00 CST ON APR 10	714 ON APR 10	33.4 B ON FEB 27	3 880 000	1983
1984	---	865 ON APR 8	8.09 ON OCT 14	3 820 000	1984
				2 970 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

RED RIVER FLOODWAY NEAR LOCKPORT - STATION NO. 05OJ014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	223	256	0	0	0	0	0	---	---	59.6	1969
1970	---	---	0	187	43.7	0	0	0	0	0	---	---	28.0	1970
1971	---	---	0	72.5	0	0	0	0	0	0	---	---	9.86	1971
1972	---	---	0	14.4	0	0	0	0	0	0	---	---	1.78	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	382	414	0	0	0	0	0	---	---	86.7	1974
1975	---	---	0	0	140	0	0	0	0	0	---	---	17.7	1975
1976	---	---	0	76.9	0	0	0	0	0	0	---	---	9.86	1976
MEAN	---	---	0	115	107	0	0	0	0	0	---	---	27.5	MEAN

LOCATION - LAT 50 05 00 N
LONG 96 55 40 W REGULATED SINCE 1969

REMARKS - LOCAL RUNOFF IS NOT INCLUDED. ONLY DIVERTED FLOWS ARE MONITORED

RED RIVER FLOODWAY NEAR LOCKPORT - STATION NO. 05OJ014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	848 AT 13:57 CST ON MAY 1	637 ON MAY 1	0 ON MAR 1 *	1 280 000	1969
1970	682 AT 04:10 CST ON MAY 2 *	682 ON MAY 1	0 ON MAR 1	551 000	1970
1971	---	286 ON APR 14	0 ON MAR 1	185 000	1971
1972	---	85.7 ON APR 16	0 ON MAR 1	37 200	1972
1973	---	0 ON MAR 1	0 ON MAR 1	0	1973
1974	---	1 130 ON APR 24 *	0 ON MAR 1	2 050 000	1974
1975	283 AT 13:50 CST ON MAY 8	278 ON MAY 8	0 ON MAR 1	374 000	1975
1976	---	306 ON APR 11	0 ON MAR 1	205 000	1976
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		891 000	MEAN

RED RIVER FLOODWAY NEAR ST. NORBERT - STATION NO. 05OC017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	224	237	0	0	0	0	0	---	---	57.4	1969
1970	---	---	0	150	214	0	0	0	0	0	---	---	45.4	1970
1971	---	---	0	54.8	0	0	0	0	0	0	---	---	6.86	1971
1972	---	---	0	4.15	0	0	0	0	0	0	---	---	0.506	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	341	363	0	0	0	0	0	---	---	87.7	1974
1975	---	---	0	0.377	133	0	0	0	0	0	---	---	15.8	1975
1976	---	---	0	73.5	0	0	0	0	0	0	---	---	8.01	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	231	11.8	0	0	0	0	0	---	---	29.8	1978
1979	---	---	0	286	795	0	0	0	0	0	---	---	136	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	2.55	0	0	0	0	0	0	---	---	0.313	1982
1983	---	---	0	2.26	0	0	0	0	0	0	---	---	0.277	1983
1984	---	---	0	0	0	0	0	0	0	0	---	---	0	1984
MEAN	---	---	0	85.8	110	0	0	0	0	0	---	---	24.4	MEAN

LOCATION - LAT 49 45 24 N
LONG 97 07 36 W REGULATED SINCE 1969

REMARKS - LOCAL RUNOFF IS NOT INCLUDED. ONLY DIVERTED FLOWS ARE MONITORED

RED RIVER FLOODWAY NEAR ST. NORBERT - STATION NO. 05OC017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	526 AT 18:35 CST ON MAY 2	526 ON MAY 3	0 ON MAR 1 *	1 220 000	1969
1970	848 AT 08:48 CST ON MAY 1	848 ON MAY 1	0 ON MAR 1	851 000	1970
1971	---	257 ON APR 14	0 ON MAR 1	141 000	1971
1972	---	33.4 ON APR 16	0 ON MAR 1	10 700	1972
1973	---	0 ON MAR 1	0 ON MAR 1	0	1973
1974	---	1 040 ON APR 24	0 ON MAR 1	1 880 000	1974
1975	274 AT 10:00 CST ON MAY 8	267 ON MAY 7	0 ON MAR 1	355 000	1975
1976	---	283 ON APR 11	0 ON MAR 1	191 000	1976
1977	---	0 ON MAR 1	0 ON MAR 1	0	1977
1978	544 AT 03:00 CST ON APR 15	513 ON APR 15	0B ON MAR 1	632 000	1978
1979	1 190 AT 18:14 CST ON MAY 8 *	1 190 ON MAY 8 *	0 ON MAR 1	2 870 000	1979
1980	---	0 ON MAR 1	0 ON MAR 1	0	1980
1981	---	0 ON MAR 1	0 ON MAR 1	0	1981
1982	18.6 AT 15:50 CST ON APR 15	17.8 ON APR 15	0 ON MAR 1	5 820	1982
1983	31.7 AT 03:14 CST ON APR 11	28.4 ON APR 11	0 ON MAR 1	5 880	1983
1984	---	0 ON MAR 1	0 ON MAR 1	0	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		516 000	MEAN

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	537	513	516	514	288	186	81.8	76.2	60.5	---	1962
1963	40.2	36.1	50.4	433	188	360	150	66.0	45.1	50.5	88.3	28.3	126	1963
1964	29.1	31.8	31.7	426	336	314	167	97.1	41.8	100	89.3	38.9	136	1964
1965	34.1	35.8	35.8	1 040	897	463	243	96.3	75.8	216	142	108	283	1965
1966	78.5	80.5	163	1 950	1 060	332	274	132	118	87.4	76.7	68.9	364	1966
1967	51.5	48.4	58.4	1 230	901	297	133	58.2	46.5	32.8	21.4	28.1	241	1967
1968	22.1	16.8	62.0	308	140	231	283	194	189	104	73.7	51.6	140	1968
1969	41.2	46.5	57.4	1 200	1 400	386	253	112	79.6	94.2	79.8	60.7	317	1969
1970	54.3	52.9	53.8	861	1 350	785	371	110	85.2	84.8	79.0	54.3	328	1970
1971	40.3	38.8	88.4	737	288	232	174	84.0	78.4	175	205	93.3	185	1971
1972	84.8	81.5	208	810	823	315	135	102	74.8	79.0	67.3	51.3	224	1972
1973	52.2	46.3	217	133	71.0	67.0	42.8	41.0	78.4	187	88.8	78.1	81.7	1973
1974	64.6	62.4	75.0	1 010	1 780	777	285	174	121	105	105	85.7	387	1974
1975	78.7	68.7	81.0	448	1 170	471	896	280	150	174	139	104	350	1975
1976	92.8	88.6	98.3	1 000	583	336	214	124	71.2	44.7	31.8	23.3	224	1976
1977	30.3	29.2	36.6	97.4	57.8	47.3	43.7	35.2	41.1	73.3	50.8	88.6	51.1	1977
1978	55.6	48.2	53.0	1 270	483	184	134	77.3	54.1	47.7	31.4	30.5	205	1978
1979	25.2	28.8	40.8	841	2 200	611	342	144	82.8	61.4	71.4	57.6	388	1979
1980	63.7	60.5	84.6	467	89.1	80.6	45.3	37.5	45.0	43.6	44.4	29.9	87.8	1980
1981	22.1	24.5	75.7	84.0	89.3	83.5	108	61.6	68.1	108	83.0	45.4	69.6	1981
1982	40.6	42.6	80.7	814	485	241	165	108	83.7	162	104	80.6	189	1982
1983	66.6	64.1	350	788	334	286	272	118	126	121	121	88.9	225	1983
1984	61.2	66.6	90.7	844	173	408	156	80.5	42.9	75.0	87.5	80.4	158	1984
MEAN	50.3	47.8	93.5	758	685	350	238	112	84.0	97.7	83.7	59.3	218	MEAN

LOCATION - LAT 50 06 28 N DRAINAGE AREA, 287 000 km²
LONG 96 55 54 W REGULATED

RED RIVER NEAR LOCKPORT - STATION NO 05OJ010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1962	---	1 720 ON APR 25	---	---	1962
1963	---	782 ON APR 11	24 08 ON DEC 25	3 980 000	1963
1964	---	1 000B ON APR 18	26 28 ON JAN 1	4 310 000	1964
1965	---	1 880 ON APR 19	32 88 ON JAN 9	8 240 000	1965
1966	---	2 570A ON APR 14	51 08 ON MAR 15	11 500 000	1966
1967	---	1 850B ON APR 26	15 0 ON NOV 9 *	7 610 000	1967
1968	---	450B ON APR 11	16 78 ON MAR 2	4 420 000	1968
1969	---	2 200 ON MAY 1	40 88 ON JAN 10	9 990 000	1969
1970	---	2 040 ON MAY 2	49 08 ON DEC 28	10 300 000	1970
1971	---	1 580B ON APR 13	36 88 ON JAN 11	5 830 000	1971
1972	---	1 130B ON APR 23	41 18 ON DEC 12	7 090 000	1972
1973	---	536B ON MAR 26	30 3 ON SEP 8	2 880 000	1973
1974	2 520 AT 05 40 CST ON APR 26	2 510 ON APR 26	52 48 ON FEB 2	12 200 000	1974
1975	---	1 480 ON MAY 13	62 88 ON FEB 1	11 000 000	1975
1976	1 570B AT 23 30 CST ON APR 8	1 530 ON APR 9	16 38 ON DEC 5	7 070 000	1976
1977	---	186B ON APR 13	19 0 ON AUG 28	1 610 000	1977
1978	---	1 810B ON APR 17	24 08 ON NOV 15	5 480 000	1978
1979	2 780 AT 15 44 CST ON MAY 8 *	2 780 ON MAY 8 *	23 88 ON JAN 16	12 200 000	1979
1980	---	1 010B ON APR 12	19 78 ON DEC 26	2 780 000	1980
1981	---	234 ON JUL 5	19 88 ON JAN 9	2 200 000	1981
1982	---	1 310 ON APR 18	37 38 ON JAN 12	6 280 000	1982
1983	---	1 580B ON APR 10	56 58 ON MAR 3	7 080 000	1983
1984	---	1 100 ON APR 8	36 4 ON OCT 16	5 010 000	1984
				6 870 000	MEAN

A - MANUAL GAUGE B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)

RED RIVER NEAR STE. AGATHE - STATION NO. 05OC012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	48.6	44.4	136	35.3	17.2	18.4	---	---	---	1958
1959	---	---	16.8	218	101	121	89.4	27.8	18.1	40.4	---	---	---	1959
1960	---	---	13.9	625	209	119	80.2	22.1	21.9	11.0	19.0	10.2	---	1960
1961	9.11	8.25	52.0	86.1	64.9	36.8	14.4	9.20	8.54	21.0	14.7	8.77	30.6	1961
1962	5.82	5.42	8.24	532	442	743	504	255	117	71.5	61.9	48.5	233	1962
1963	33.7	30.8	44.7	281	127	273	104	43.8	35.9	40.3	28.5	20.7	88.4	1963
1964	21.4	22.8	19.8	312	197	277	147	46.3	31.7	89.2	44.4	28.8	101	1964
1965	25.0	25.6	26.4	761	866	333	187	74.5	86.8	143	105	101	210	1965
1966	76.2	53.8	147	1 530	747	254	222	114	98.8	55.6	54.0	50.1	283	1966
1967	41.5	98.3	50.7	635	674	219	114	43.1	27.1	27.5	17.1	18.3	184	1967
1968	15.6	12.3	44.1	188	89.6	195	249	174	151	82.3	80.6	51.4	110	1968
1969	40.7	35.2	53.5	815	961	225	141	58.7	48.9	82.5	58.7	44.4	214	1969
1970	40.0	38.3	40.7	645	954	588	225	47.6	41.5	37.6	44.2	31.8	228	1970
1971	29.3	28.6	85.5	604	186	103	84.9	44.6	44.4	112	155	82.0	126	1971
1972	44.0	46.1	181	750	387	190	74.5	73.8	58.0	55.8	42.4	30.1	161	1972
1973	29.3	31.8	182	84.5	64.3	41.4	20.1	20.6	69.8	139	80.8	81.3	89.0	1973
1974	49.1	48.9	56.6	657	1 120	402	113	98.6	73.9	61.4	61.3	38.4	232	1974
1975	35.6	39.2	48.7	367	884	229	837	172	72.8	65.0	60.3	50.5	241	1975
1976	45.6	48.7	68.0	625	183	78.5	47.9	30.6	21.4	10.9	8.30	4.57	84.5	1976
1977	4.07	5.36	10.5	65.9	40.0	27.2	17.0	8.23	12.8	42.0	25.3	40.7	25.1	1977
1978	36.2	31.4	42.3	1 040	430	127	105	58.9	41.1	31.6	19.3	21.7	165	1978
1979	17.5	17.9	22.2	680	1 780	309	199	101	62.7	44.0	80.5	39.5	277	1979
1980	38.8	38.1	43.4	342	70.8	51.3	24.4	17.4	25.8	14.1	10.4	11.2	58.8	1980
1981	7.25	8.88	42.6	54.2	39.4	55.8	87.3	40.7	59.5	77.0	61.0	35.6	47.7	1981
1982	31.2	28.2	42.1	686	304	147	129	78.9	40.5	139	75.5	80.1	147	1982
1983	44.8	40.8	328	527	137	150	208	72.1	87.7	82.7	81.7	47.8	147	1983
1984	39.0	37.2	77.1	586	132	334	113	44.9	32.0	53.9	61.9	43.5	129	1984
MEAN	31.7	29.8	86.8	539	408	210	158	67.5	51.4	58.8	51.3	38.4	150	MEAN

LOCATION - LAT 49 33 40 N DRAINAGE AREA, 117 000 km²
LONG 97 10 52 W REGULATED

RED RIVER NEAR STE. AGATHE - STATION NO. 05OC012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1958	---	---	---	---	1958
1959	---	4760 ON APR 11	---	---	1959
1960	---	---	---	---	1960
1961	---	1 080 ON APR 17	3.85 ON SEP 9	984 000	1961
1962	---	1508 ON MAR 31	4.398 ON FEB 5	7 380 000	1962
1963	---	1 260A ON APR 25	19.5 B ON DEC 5	2 780 000	1963
1964	5528 AT 12 30 CST ON APR 10	5078 ON APR 10 5548 ON APR 19	16.8 B ON MAR 10	3 200 000	1964
1965	1 280 AT 16 00 CST ON APR 19	1 280 ON APR 19	23.1 B ON JAN 21	6 510 000	1965
1966	---	1 870A ON APR 15	40.8 B ON MAR 15	8 930 000	1966
1967	1 270B AT 14 00 CST ON APR 8	1 180B ON APR 8	8.548 ON NOV 14	4 780 000	1967
1968	436 AT 17 00 CST ON JUL 25	430 ON JUL 25	9.778 ON MAR 7	3 480 000	1968
1969	1 460 AT 11 39 CST ON MAY 2	1 460 ON MAY 1	32.6 B ON FEB 6	8 740 000	1969
1970	1 450 AT 20 15 CST ON MAY 1	1 450 ON APR 30	27.4 B ON DEC 3	7 180 000	1970
1971	---	1 210B ON APR 13	25.2 B ON FEB 8	3 980 000	1971
1972	971 AT 12 40 CST ON APR 25	968 ON APR 25	27.4 B ON DEC 8	5 080 000	1972
1973	---	4738 ON MAR 28	12.9 ON AUG 3	2 180 000	1973
1974	---	1 420 ON APR 25	34.8 C ON DEC 7	7 320 000	1974
1975	---	1 210 ON MAY 11	28.0 B ON JAN 24	7 810 000	1975
1976	1 190B AT 23 00 CST ON APR 8	1 140B ON APR 8	3.828 ON DEC 21	2 990 000	1976
1977	---	1332 ON APR 12	3.608 ON JAN 13 *	781 000	1977
1978	---	1 400 ON APR 21	14.5 B ON NOV 14	5 180 000	1978
1979	2 330 AT 17 45 CST ON MAY 4 *	2 320 ON MAY 4 *	15.2 B ON FEB 4	8 730 000	1979
1980	784 AT 05 57 CST ON APR 12	7458 ON APR 12	7.018 ON NOV 18	1 800 000	1980
1981	181 AT 15 41 CST ON JUL 5	180 ON JUL 5	6.788 ON JAN 16	1 600 000	1981
1982	1 070 AT 00 38 CST ON APR 17	1 070 ON APR 17	38.8 B ON FEB 9	4 830 000	1982
1983	1 030B AT 01 00 CST ON APR 11	1 010B ON APR 11	35.1 B ON MAR 2	4 660 000	1983
1984	1 060 AT 19 32 CST ON APR 8	9538 ON APR 7	21.2 ON OCT 18	4 070 000	1984
				4 730 000	MEAN

A - MANUAL GAUGE B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
[SEE REFERENCE INDEX] E - ESTIMATED

RENNIE RIVER NEAR RENNIE - STATION NO. 05PG002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.044	3.17	2.95	0.459	0.046	0.055	0.045	0.088	---	---	---	1960
1961	---	---	0.082	0.205	0.904	0.201	0.077	0.058	0.037	0.122	---	---	---	1961
1962	---	---	0	0.255	7.54	3.85	0.836	5.21	2.09	0.043	---	---	---	1962
1963	---	---	0.083	2.01	2.61	3.78	0.547	1.57	0.366	0.247	---	---	---	1963
1964	---	---	0.221	1.89	4.11	0.362	0.412	0.531	0.842	1.82	---	---	---	1964
1965	---	---	0.105	4.01	4.02	0.548	1.08	0.379	0.377	---	---	---	---	1965
1966	---	---	0.300	4.88	5.98	1.03	2.28	0.082	0.122	0.167	0.248	0.323	---	1966
1967	0.311	0.251	0.184	3.55	3.04	0.017	0.083	2.04	0.428	0.021	0.019	0.047	0.837	1967
1968	0.112	0.101	0.084	1.90	1.87	1.48	1.45	0.224	0.491	1.46	0.627	0.403	0.903	1968
1969	0.280	0.258	0.150	1.37	1.86	0.161	0.200	0.151	0.141	0.107	0.105	0.080	0.407	1969
1970	0.147	0.132	0.149	0.880	5.05	2.26	0.051	0.018	0.018	0.018	1.23	0.680	0.874	1970
1971	0.295	0.164	0.164	2.43	1.77	0.352	0.547	0.038	0.041	0.027	0.202	0.713	0.571	1971
1972	0.370	0.186	0.142	0.894	1.44	0.180	0.008	0.008	0.004	0.003	0.001	0.001	0.254	1972
1973	0.003	0.022	0.121	0.014	0.024	3.51	0.883	0.479	0.580	4.10	1.97	0.783	1.04	1973
1974	0.382	0.244	0.164	3.36	6.11	1.81	0.107	0.028	0.392	0.531	0.318	0.237	1.13	1974
1975	0.201	0.153	0.147	0.889	1.88	0.458	1.85	0.055	0.280	0.231	0.446	0.220	0.556	1975
1976	0.194	0.128	0.137	1.66	.22	0.128	0.516	0.032	0.014	0.008	0.003	0.005	0.338	1976
1977	0.003	0.002	0.004	0.005	0.007	1.81	1.05	0.093	0.143	0.873	0.786	0.750	0.461	1977
1978	0.448	0.244	0.141	1.85	3.41	0.746	0.160	0.045	0.026	0.195	0.227	0.144	0.623	1978
1979	0.138	0.135	0.177	0.890	3.57	0.843	0.087	0.064	0.034	0.013	0.043	0.127	0.512	1979
1980	0.158	0.177	0.171	0.244	0.328	0.085	0.104	0.082	0.528	0.356	0.350	0.350	0.241	1980
1981	0.185	0.160	0.022	0.005	0.012	0.009	0.010	0.022	0.203	1.85	0.677	0.540	0.310	1981
1982	0.247	0.174	0.098	0.410	1.92	0.724	0.535	0.244	0.032	0.438	0.389	0.250	0.486	1982
1983	0.304	0.140	0.173	0.156	1.12	1.11	0.428	0.044	0.018	0.016	0.005	0.003	0.285	1983
1984	0.002	0.001	0.066	0.010	0.003	1.89	0.782	0.043	0.005	0.378	1.26	0.849	0.404	1984
MEAN	0.203	0.149	0.126	1.46	2.51	1.10	0.584	0.482	0.290	0.562	0.478	0.331	0.567	MEAN

LOCATION - LAT 49 55 42 N DRAINAGE AREA, 159 km²
LONG 95 32 40 W REGULATED

RENNIE RIVER NEAR RENNIE - STATION NO 05PG002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1960	---	7.31 ON APR 25	0.8 ON MAR 25 *	---	1960
1961	---	1.14 ON MAY 16	0.014 ON AUG 24	---	1961
1962	---	14.0 ON MAY 26 *	0.8 ON MAR 1	---	1962
1963	---	5.44 ON JUN 13	0.082B ON MAR 1	---	1963
1964	---	5.97 ON MAY 8	0.011B ON MAR 1	---	1964
1965	---	6.03 ON MAY 7	---	---	1965
1966	---	5.44E ON APR 17	0.026 ON JUN 21	---	1966
1967	---	7.18E ON APR 24	0.003E ON OCT 24	26 400	1967
1968	---	3.31E ON APR 24	0.042E ON AUG 29	28 500	1968
1969	---	3.80 ON MAY 1	0.042 ON NOV 27	12 600	1969
1970	8.43 AT 14 17 CST ON MAY 6	6.40 ON MAY 5	0 ON APR 2	27 900	1970
1971	7.70 AT 13 21 CST ON APR 22	7.39 ON APR 24	0.012 ON MAY 28	18 000	1971
1972	---	2.80 ON MAY 9	0 ON DEC 23	8 030	1972
1973	---	14.0 E ON JUN 20	0 ON JAN 1	32 800	1973
1974	12.7 AT 14 20 CST ON APR 26 *	12.5 ON APR 26	0.012 ON AUG 10	35 900	1974
1975	3.88 IN JUL	3.88 ON JUL 4	0 ON MAY 30	17 800	1975
1976	---	3.91E ON APR 29	0 ON MAY 18	10 700	1976
1977	7.78 AT 15 09 CST ON JUN 25	7.14 ON JUN 26	0.002E ON FEB 6	14 800	1977
1978	9.80 AT 15 56 CST ON MAY 2	8.61 ON MAY 3	0.004 ON SEP 30	19 700	1978
1979	---	4.45E ON MAY 8	0.005A ON JUN 14	18 200	1979
1980	1.26 AT 09 23 CST ON SEP 22	1.12 ON SEP 23	0.020 ON JUN 27	7 540	1980
1981	5.89 AT 09 38 CST ON OCT 6	4.97 ON OCT 7	0 B ON APR 7	9 780	1981
1982	3.65 AT 07 49 CST ON MAY 19	3.36 ON MAY 20	0.011 ON SEP 21	14 700	1982
1983	2.55 AT 14 27 CST ON MAY 18	2.35 ON MAY 19	0.003 ON DEC 7	9 000	1983
1984	4.30 AT 14 48 CST ON JUN 18	4.18 ON JUN 19	0 ON OCT 18	12 800	1984
				17 900	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RIVIERE AUX MARAIS NEAR CHRISTIE - STATION NO 05DC022

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	0	4.91	0.018	0	0	0	0	0	---	---	0.804	1971
1972	---	---	0.478	1.24	0.001	0	0	0	0	0	---	---	0.213	1972
1973	---	---	0.157	0.001	0	0	0	0	0	0.248	---	---	0.083	1973
1974	---	---	0	10.8	28.5	0.437	0	0	0	0	---	---	4.88	1974
1975	---	---	0	0.567	0.288	0.010	0.012	0	0	0	---	---	0.108	1975
1976	---	---	0	2.74	0.003	0.089	0.003	0	0	0	---	---	0.344	1976
1977	---	---	0	0.039	0.029	0.158	0	0	0	0	---	---	0.028	1977
1978	---	---	0.323	2.48	0.014	0	0	0	0.009	0.004	---	---	0.346	1978
1979	---	---	0	11.4	4.87	0.478	0.104	0	0	0	---	---	2.08	1979
1980	---	---	0	0.394	0	0	0	0	0	0	---	---	0.048	1980
1981	---	---	0.208	0.032	0.003	0.010	0	0	0	0	---	---	0.032	1981
1982	---	---	0.088	0.826	0	0	0.003	0.013	0.002	0.047	---	---	0.130	1982
1983	---	---	0.853	3.24	0.003	0.001	0.002	0	0	0	---	---	0.345	1983
1984	---	---	0.002	0.080	0.002	0.003	0	0	0	0	---	---	0.011	1984
MEAN	---	---	0.126	3.70	2.41	0.082	0.009	0.001	0.001	0.021	---	---	0.866	MEAN

LOCATION - LAT 48 03 30 N DRAINAGE AREA, 138 km²
LONG 97 18 50 W NATURAL FLOW

RIVIERE AUX MARAIS NEAR CHRISTIE - STATION NO. 05OC022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	13.3 ON APR 13	0.0 ON MAR 1 *	12 800	1971
1972	---	5.64 ON APR 14	0.0 ON MAR 1	4 500	1972
1973	---	1.26 ON MAR 23	0.0 ON MAR 1	1 120	1973
1974	---	75.0 ON MAY 2 *	0.0 ON MAR 1	105 000	1974
1975	---	3.20 ON APR 30	0.0 ON MAR 1	2 200	1975
1976	---	16.3 ON APR 6	0.0 ON MAR 1	7 270	1976
1977	---	1.07 ON JUN 1	0.0 ON MAR 1	586	1977
1978	---	8.21 ON APR 9	0.0 ON MAR 1	7 320	1978
1979	37.6 AT 02:41 CST ON APR 19 *	36.4 ON APR 19	0.0 ON MAR 1	46 100	1979
1980	---	3.81 B ON APR 2	0.0 ON MAR 1	1 020	1980
1981	---	0.6008 ON MAR 14	0.0 ON MAR 1	868	1981
1982	5.40 AT 01:38 CST ON APR 14	5.15 ON APR 14	0.0 ON MAR 1	2 760	1982
1983	8.238 AT 08:26 CST ON APR 7	7.95 B ON APR 7	0.0 ON MAR 1	7 300	1983
1984	---	0.377 ON APR 3	0.0 ON MAR 1	226	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		14 100	MEAN

ROARING RIVER NEAR MINITONAS - STATION NO. 05LE005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	---	4.31	4.90	5.00	3.80	0.282	1.89	2.84	---	---	---	1959
1960	---	---	0.080	11.3	9.35	5.87	0.898	0.187	0	0.038	---	---	3.41	1960
1961	---	---	0.042	0.464	0.784	0.148	0.008	0	0	0.003	---	---	0.178	1961
1962	---	---	0	3.07	1.48	0.380	0.058	0.008	0.289	0.542	---	---	0.716	1962
1963	---	---	0.267	4.83 R	3.22	1.27	0.348	0.224	0.161	0.058	---	---	1.29 R	1963
1964	---	---	---	1.08	2.61	0.275	0.105	0.087	0.043	0.085	---	---	---	1964
1965	---	---	0	4.30	9.31	4.67	1.89	2.84	1.78	1.24	---	---	3.19	1965
1966	---	---	0.010	8.81	11.3	8.87	3.30	0.598	0.398	1.12	---	---	4.29	1966
1967	---	---	0.170	0.987	11.6	2.98	0.519	0.170	0	0.004	---	---	2.06	1967
1968	---	---	0.683	1.83	1.63	1.71	2.40 R	1.83	0.812	0.271	---	---	1.39 R	1968
1969	---	---	0.188	5.29	2.18	2.18	0.945	0.565	0.333	2.17	---	---	1.72	1969
1970	---	---	0.213	8.27	15.3	2.21	2.58	0.727	0.883	3.11	---	---	3.80	1970
1971	---	---	0.272	15.7	4.27	3.20	1.89	1.03	0.185	0.929	---	---	3.38	1971
1972	---	---	0.286	9.30	9.18	2.10	1.44	0.272	0.064	0.186	---	---	2.84	1972
1973	---	---	0.394	1.38	1.74	7.10	4.85	0.829	1.15	1.12	---	---	2.26	1973
1974	---	---	0.335	13.9	16.1	5.09	0.440	0.424	0.889	1.36	---	---	4.79	1974
1975	---	---	0.317	8.50	12.4	7.88	1.08	0.336	1.71	2.43	---	---	4.26	1975
1976	---	---	0.355	15.7	3.15	21.4	2.46	0.498	0.267	0.193	---	---	5.42	1976
1977	---	---	0.183	4.08	1.84	0.845	1.20	1.86	4.38	2.90	---	---	2.03	1977
1978	---	---	0.287	8.22	4.28	0.913	0.458	0.035	0.205	1.23	---	---	1.96	1978
1979	---	---	0.177	11.4	22.1	5.44	0.838	0.224	0.141	0.288	---	---	5.20	1979
1980	---	---	0.177	4.54	0.888	---	---	---	---	---	---	---	---	1980
1981	---	---	0.140	1.38	1.74	1.85	0.733	0.264	0.013	0.740	---	---	0.853	1981
1982	---	---	0.022	2.84	1.98	0.752	4.85	1.16	0.181	0.596	---	---	1.55	1982
1983	---	---	0.183	5.89	9.89	4.46	9.22	0.686	0.228	0.543	---	---	3.62	1983
1984	---	---	0.245	5.12	9.58	7.88	1.46	0.170	0.175	1.51	---	---	3.25	1984
MEAN	---	---	0.209	6.19 R	6.63	4.20	1.76 R	0.597	0.844	1.01	---	---	2.76	MEAN

LOCATION - LAT 52 08 10 N
LONG 101 03 10 W

DRAINAGE AREA 837 km^2
NATURAL FLOW

R - REVISED SINCE JAN 1980

ROARING RIVER NEAR MINITONAS - STATION NO. 05LE005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	23.1 AT 18:30 CST ON JUN 29	22.7 ON JUN 30	---	---	1959
1960	47.3 B AT 18:00 CST ON APR 11	39.4 ON APR 12	0 ON AUG 30 *	72 200	1960
1961	---	1.838 ON APR 23	0 ON JUL 26	3 780	1961
1962	---	17.1 B ON APR 20	0 B ON MAR 1	15 200	1962
1963	---	10.9 B ON APR 10	0 B ON MAR 1	27 200R	1963
1964	---	9.08 ON MAY 10	---	---	1964
1965	---	25.7 ON MAY 2	0 B ON MAR 1	67 500	1965
1966	---	27.7 ON JUN 27	0 B ON MAR 1	90 800	1966
1967	---	22.1 B ON MAY 1	0 ON AUG 26	43 500	1967
1968	---	6.74 ON JUL 22	0 ON JUN 28	29 500R	1968
1969	---	16.5 ON APR 18	0.054 ON SEP 21	36 400	1969
1970	---	36.0 ON MAY 3	0.020 ON JUL 20	82 500	1970
1971	---	47.3 ON APR 18	0.127 ON SEP 4	71 400	1971
1972	---	41.9 ON APR 21	0.034 ON SEP 26	80 200	1972
1973	---	30.9 ON JUN 21	0.0859 ON MAR 1	47 900	1973
1974	---	88.1 ON APR 20	0.227 ON AUG 7	101 000	1974
1975	---	27.7 ON APR 30	0.249 ON SEP 2	90 800	1975
1976	148 ON JUN 15 *	131 ON JUN 15 *	0.068 ON SEP 29	115 000	1976
1977	---	12.0 E ON APR 12	0.1368 ON MAR 1	43 000	1977
1978	31.4 AT 22:15 CST ON APR 18	27.8 ON APR 18	0.007A ON AUG 22	41 100	1978
1979	---	51.8 A ON MAY 18	0.111A ON AUG 29	110 000	1979
1980	8.98 AT 03:00 CST ON APR 20	8.59 ON APR 19	---	---	1980
1981	4.71 AT 22:30 CST ON JUN 21	4.65 ON JUN 21	0 A ON SEP 2	18 100	1981
1982	---	25.7 A ON JUL 19	0.0138 ON MAR 27	32 900	1982
1983	---	52.1 B ON APR 24	0.138 ON SEP 25	78 800	1983
1984	38.3 AT 11:26 CST ON JUN 24	38.0 ON JUN 24	0.070E ON SEP 1	88 900	1984
	A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980		68 500R	MEAN

ROLLING RIVER NEAR DANVERS - STATION NO. 05MF007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO NOV IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	0.284	0 852	0 426	0 283	0 285	0 283	0 311	---	0 355	1915
MEAN	---	---	---	---	0.284	0 852	0 426	0 283	0 285	0 283	0 311	---	0 355	MEAN

LOCATION - LAT 50 33 20 N
LONG 99 54 10 W
DRAINAGE AREA, 409 km²
NATURAL FLOW

ROLLING RIVER NEAR DANVERS - STATION NO. 05MF007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO NOV FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1915	---	1 42 ON JUN 11 *	0 ON JUN 3 *	5 570	1915
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 570	MEAN

ROLLING RIVER NEAR ERICKSON - STATION NO. 05MF008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	0 453	1 14	0 777	0 362	0 442	1 03	0 461	0 142	---	1915
1916	0 142	0 113	0 113	4 24	3 87	5 33	5 97	1 48	0 485	0 953	0 570	0 283	1 94	1916
1917	0 227	0 288	0 411	2 57	5 07	1 16	1 25	0 514	1 08	0 256	0 265	0 112	1 10	1917
1918	0 068	0 056	0 231	2 09	1 39	1 50	0 757	0 601	1 14	0 451	0 283	0 201	0 729	1918
1919	0 132	0 029	0 073	4 06	1 90	0 799	1 54	0 804	0 671	0 721	0 426	0 192	0 930	1919
1920	0 015	0 023	0 105	0 851	8 18	2 19	0 784	0 319	0 504	0 614	0 501	0 383	1 22	1920
1921	0 178	0 147	0 227	3 53	6 97	2 80	1 17	0 648	1 70	1 15	0 777	0 389	1 65	1921
1922	0 177	0 082	0 192	4 43	7 44	2 51	1 53	1 16	0 792	---	---	---	---	1922
1961	---	---	0 191	0 975	1 49	0 122	0 007	0	0 007	0 038	---	---	---	1961
1962	---	---	0 012	0 705	0 132	1 88	0 556	0 273	0 521	0 476	---	---	---	1962
1963	---	---	0 228	5 78	3 81	4 62	1 82	0 566	0 640	0 565	---	---	---	1963
1964	---	---	0 153	2 34	4 55	0 963	0 805	0 517	0 222	0 175	---	---	---	1964
1965	---	---	0 068	1 87	10 3	5 23	2 10	1 35	6 80	1 75	---	---	---	1965
1966	---	---	0 032	3 89	7 33	2 72	0 925	2 05	0 511	0 462	---	---	---	1966
1967	---	---	0 301	4 70	8 37	3 81	1 16	0 513	0 008	0 418	---	---	---	1967
1968	---	---	0 892	2 73	2 47	1 30	1 45	3 83	2 06	0 887	---	---	---	1968
1969	---	---	0 235	6 22	4 78	3 52	1 44	1 88	1 08	0 936	---	---	---	1969
1970	---	---	0 391	1 38	25 0	7 05	3 45	1 23	0 885	0 979	---	---	---	1970
1971	---	---	0 212	5 39	3 86	8 95	4 32	1 59	0 707	2 41	---	---	---	1971
1972	0 671	0 328	0 289	4 58	7 94	3 30	0 896	0 403	0 384	0 463	0 351	0 028	1 62	1972
1973	0	0	0 260	1 03	1 22	2 71	0 865	0 848	1 91	2 59	0 875	0 825	1 08	1973
1974	0 289	0 329	0 388	5 11	16 1	5 95	1 14	0 351	0 329	0 305	0 306	0 251	2 42	1974
1975	0 227	0 215	0 223	1 61	6 27	4 15	0 964	2 44	12 8	5 88	2 84	1 54	3 25	1975
1976	1 01	0 713	0 838	10 1	6 03	4 52	1 40	0 492	0 183	0 101	0 126	0 086	2 13	1976
1977	0 078	0 064	0 170	0 843	1 24	0 602	2 53	0 571	1 85	1 90	0 873	0 573	0 833	1977
1978	0 380	0 312	0 281	3 03	3 94	1 81	0 527	0 061	0 410	0 570	0 411	0 242	0 983	1978
1979	0 172	0 184	0 206	3 85	16 4	6 90	1 84	0 396	0 109	0 184	0 245	0 241	2 56	1979
1980	0 161	0 171	0 237	2 10	0 831	0 207	0 527	2 15	2 45	1 87	1 39	1 10	1 07	1980
1981	0 632	0 182	0 377	3 43	1 72	1 90	0 754	0 349	0 212	0 832	0 709	0 183	0 923	1981
1982	0 033	0 013	0 012	5 12	3 95	1 02	0 755	0 872	0 157	0 964	0 848	0 194	1 15	1982
1983	0 071	0 077	0 135	5 77	7 38	4 08	3 10	0 564	0 048	0 131	0 154	0 072	1 81	1983
1984	0 044	0 085	0 329	1 84	3 16	2 73	1 01	0 091	0 127	0 550	0 555	0 425	0 918	1984
MEAN	0 220	0 189	0 248	3 91	5 70	3 04	1 75	0 905	1 28	0 985	0 648	0 362	1 50	MEAN

LOCATION - LAT 50 31 12 N
LONG 99 56 27 W
DRAINAGE AREA, 759 km²
NATURAL FLOW

ROLLING RIVER NEAR ERICKSON - STATION NO. 05MF005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	17.4 ON JUN 30	0.1138 ON FEB 1	61 400	1916
1917	---	10.7 ON APR 20	0.0678 ON DEC 27	34 800	1917
1918	---	5.36 ON APR 21	0.0248 ON JAN 9	23 000	1918
1919	---	9.00 ON APR 11	0 B ON FEB 17 *	29 300	1919
1920	---	16.5 ON MAY 12	0 B ON JAN 15	38 800	1920
1921	---	12.9 ON MAY 25	0.1138 ON JAN 15	51 900	1921
1922	---	12.1 ON MAY 17	---	---	1922
1981	---	2.48 ON MAY 10	0 ON JUL 13	---	1981
1982	---	3.28 ON JUN 3	0 ON MAY 9	---	1982
1983	---	8.81 ON APR 21	0 B ON MAR 1	---	1983
1984	---	8.18 ON MAY 8	0.119 ON SEP 26	---	1984
1985	---	23.2 ON MAY 4	0.0558 ON MAR 1	---	1985
1986	---	14.2 ON MAY 10	0 B ON MAR 1	---	1986
1987	---	11.6 ON MAY 12	0 ON SEP 25	---	1987
1988	---	5.86 ON AUG 5	0.1428 ON MAR 1	---	1988
1989	---	27.2 ON JUL 1	0.1428 ON MAR 1	---	1989
1970	---	60.3 ON MAY 11 *	0.348 ON SEP 11	---	1970
1971	---	16.7 ON JUN 12	0.2128 ON MAR 1	---	1971
1972	13.1 AT 18 09 CST ON APR 30	13.0 ON APR 30	0 B ON DEC 17	51 500	1972
1973	5.48 AT 18 23 CST ON JUN 24	5.43 ON JUN 24	0 B ON JAN 1	34 100	1973
1974	21.9 AT 21 05 CST ON MAY 14	21.1 ON MAY 14	0.193 ON AUG 27	78 100	1974
1975	52.1 AT 17 40 CST ON SEP 21 *	47.8 ON SEP 22	0.1838 ON APR 3	102 000	1975
1976	19.8 AT 21 28 CST ON APR 17	19.5 ON APR 17	0.037 ON OCT 5	67 200	1976
1977	5.86 AT 03 15 CST ON JUL 17	5.86 ON JUL 17	0.0718 ON JAN 17	28 400	1977
1978	8.52 AT 23 59 CST ON APR 30	8.44 ON MAY 1	0.003 ON SEP 12	30 900	1978
1979	31.8 AT 07 08 CST ON MAY 20	31.8 ON MAY 20	0.048 ON OCT 1	80 700	1979
1980	5.06 AT 04 25 CST ON AUG 27	4.98 ON AUG 27	0.108 ON AUG 3	33 700	1980
1981	7.288 AT 19 58 CST ON APR 8	6.848 ON APR 8	0.004 ON SEP 21	29 100	1981
1982	12.7 B AT 22 38 CST ON APR 19	12.3 ON APR 23	0.0018 ON FEB 16	38 300	1982
1983	27.1 AT 11 45 CST ON APR 27	26.7 ON APR 27	0.033 ON SEP 22	87 000	1983
1984	8.28 AT 00 28 CST ON JUN 28	8.04 ON JUN 28	0.0298 ON JAN 25	29 000	1984
				47 200	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER AT DOMINION CITY - STATION NO. 05OD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	5.67	1.70	3.21	5.26	30.0	22.5	8.80	---	1912
MEAN	---	---	---	---	---	5.67	1.70	3.21	5.26	30.0	22.5	8.80	---	MEAN

LOCATION - LAT 49 08 50 N DRAINAGE AREA, 6 590 km^2
LONG 97 09 00 W NATURAL FLOW

ROSEAU RIVER AT GARDENTON - STATION NO. 05OD004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	22.0	19.3	23.8	4.87	0.878	1.47	1.70	0.850	---	1915
1916	0.227	0.170	0.255	41.2	55.7	19.8	5.82	2.77	2.37	2.59	2.43	0.113	15.7	1916
1917	0.391	0.312	0.605	12.8	16.2	2.75	2.58	1.24	0.488	0.899	1.88	0.510	4.67	1917
1918	0.045	0	---	---	4.10	5.58	2.20	1.41	0.972	1.55	3.34	1.42	---	1918
1919	0.821	0.368	0.735	---	8.86	5.80	44.5	15.8	2.41	1.89	1.72	0.928	---	1919
1920	0.334	0.371	---	24.1	10.8	11.2	1.00	0.124	0.403	1.21	0.883	0.201	---	1920
1921	0.127	0.227	---	21.0	8.23	4.97	1.17	0.882	1.80	1.89	0.831	0.510	---	1921
1922	0.173	0.085	---	16.5	24.0	13.8	3.03	1.39	4.84	---	4.13	1.07	---	1922
1982	0.204	0.232	---	17.8	40.5	58.8	30.9	23.5	8.88	0.284	3.57	2.30	---	1982
1983	0.268	0.235	2.10	36.2	20.2	23.3	8.08	1.48	0.251	0.699	0.787	0.187	11.4	1983
1984	0.034	0.024	0	16.7	21.8	20.3	23.3	2.39	2.89	18.1	8.81	1.08	13.2	1984
1985	0.082	0.037	0	37.1	70.1	42.2	23.5	2.58	5.51	17.5	15.7	7.70	24.8	1985
1986	3.11	1.78	5.54	70.8	78.1	43.4	18.0	4.57	3.70	1.42	1.31	1.85	28.4	1986
1987	0.348	0.138	0.861	55.4	84.3	21.4	3.18	0.240	0.011	0.021	0.278	0.513	18.3	1987
1988	0.204	0.081	0.725	18.7	5.81	32.8	48.8	46.3	44.9	17.6	11.8	2.84	27.0	1988
1989	0.780	0.631	0.988	46.8	62.0	30.3	4.02	3.82	1.71	3.78	2.84	1.71	17.8	1989
1970	1.30	0.882	0.488	23.9	88.5	78.5	37.9	1.89	3.38	2.24	7.18	1.43	39.5	1970
1971	0.147	0.149	0.438	34.8	35.8	8.84	3.88	1.24	0.857	3.45	8.58	1.88	9.90	1971
1972	0.807	0.315	1.71	24.0	32.8	8.82	1.84	0.818	0.435	1.13	1.08	0.202	9.00	1972
1973	0.178	0.187	8.23	3.70	3.34	2.10	0.800	2.17	4.58	15.8	8.31	1.31	4.74	1973
1974	0.438	0.385	0.432	25.4	80.0	58.8	5.38	13.5	13.1	3.91	2.87	1.03	24.7	1974
1975	0.808	0.711	0.817	15.9	85.5	33.1	38.9	3.82	0.884	0.588	0.948	0.413	19.7	1975
1976	---	---	0.438	26.7	7.57	3.78	2.86	(.367	0.177	0.483	---	---	5.45	1976
1977	---	---	0.807	4.78	1.70	1.80	1.70	0.347	1.05	5.00	---	---	2.10	1977
1978	---	---	0.281	30.0	43.2	5.84	11.1	5.40	4.43	1.74	---	---	12.7	1978
1979	---	---	0.378	15.5	74.6	36.8	3.18	0.483	0.237	0.182	---	---	18.7	1979
1980	---	---	0.258	18.0	3.88	0.240	0.028	0.029	0.148	0.858	---	---	3.72	1980
1981	---	---	2.88	1.57	1.55	9.43	8.34	2.00	3.82	10.5	---	---	4.88	1981
1982	---	---	0.870	29.3	36.2	8.79	8.39	3.88	1.28	17.6	---	---	13.2	1982
1983	---	---	37.0	37.8	22.1	15.4	14.3	0.880	1.49	3.00	---	---	15.6	1983
1984	---	---	2.15	23.2	7.80	19.4	8.12	1.08	0.114	2.42	---	---	8.08	1984
MEAN	0.494	0.336	2.38	26.3	32.7	20.7	12.5	4.85	3.78	4.68	4.08	1.35	14.2	MEAN

LOCATION - LAT 49 05 15 N DRAINAGE AREA, 4 430 km^2
LONG 96 41 15 W NATURAL FLOW

ROSEAU RIVER AT GARDENTON - STATION NO 05OD004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	---	---	---	1916
1917	---	69 8 ON APR 30	0 057 ON AUG 2	355 000	1916
1918	---	26 8 ON APR 28	0 113 ON SEP 19	88 820	1917
1919	---	---	---	---	1918
		86 3 ON JUL 21	---	---	1919
1920	---	---	---	---	
1921	---	50 1 ON APR 15	0 ON AUG 21 *	---	1920
1922	---	48 4 ON APR 18	---	---	1921
		35 7 ON MAY 29	---	---	1922
1962	---	---	---	---	
1963	---	71 9 ON JUN 15	0 ON OCT 16	---	1962
1964	---	43 3 ON APR 28	0 0 ON MAR 1	242 000	1963
		37 7 ON JUL 4	0 0 ON MAR 1	279 000	1964
1965	---	---	---	---	
1966	---	85 8 ON MAY 6	0 0 ON MAR 1	524 000	1965
1967	---	101 ON MAY 4	1 13 ON OCT 12	602 000	1966
1968	---	79 0 ON APR 21	0 0 ON MAR 1	387 000	1967
1969	---	57 8 ON JUN 30	0 1428 ON MAR 1	571 000	1968
		83 8A ON APR 29	0 9038 ON MAR 1	378 000	1969
1970	103 AT 15 00 CST ON MAY 16 *	102 ON MAY 16 *	0 2838 ON APR 12	625 000	1970
1971	83 5 AT 06 38 CST ON APR 21	53 2 ON APR 21	0 3288 ON MAR 11	209 000	1971
1972	---	47 5 ON MAY 1	0 283E ON SEP 1	191 000	1972
1973	---	21 2 ON OCT 2	0 2558 ON MAR 1	100 000	1973
1974	88 3 AT 13 00 CST ON MAY 21	85 1 ON MAY 21	0 4088 ON MAR 17	523 000	1974
1975	72 5 AT 00 33 CST ON MAY 10	72 5 ON MAY 9	0 422 ON OCT 2	418 000	1975
1976	44 78 AT 21 21 CST ON APR 8	40 2 ON APR 7	0 083 ON SEP 26	115 000	1976
1977	14 88 AT 16 22 CST ON APR 10	10 58 ON APR 10	0 1428 ON MAR 1	44 500	1977
1978	63 1 AT 18 08 CST ON APR 27	62 8 ON APR 27	0 2328 ON MAR 1	269 000	1978
1979	90 8 AT 11 43 CST ON MAY 12	89 0 ON MAY 12	0 003 ON OCT 1	353 000	1979
1980	4_ 0 AT 03 33 CST ON APR 14	39 58 ON APR 14	0 ON JUL 10	57 400	1980
1981	18 0 AT 11 10 CST ON JUL 4	16 9 ON JUL 4	0 482 ON SEP 5	108 000	1981
1982	---	47 2A ON MAY 4	0 2868 ON MAR 26	280 000	1982
1983	58 8 AT 14 38 CST ON APR 8	51 9 ON APR 8	0 307 ON AUG 27	330 000	1983
1984	47 4 AT 18 82 CST ON APR 4	39 3 ON APR 4	0 040 ON OCT 10	171 000	1984
				301 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER AT STUARTBURN - STATION NO 05OD014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1924	---	---	---	---	21 2	5 85	3 27	6 13	2 03	6 53	---	---	---	1924
1925	---	---	---	27 7	14 2	42 0	45 6	3 36	4 14	6 31	- -	---	---	1925
1926	---	---	---	15 6	5 27	17 3	33 6	4 58	7 54	19 0	- -	---	---	1926
1927	---	---	---	62 3	78 0	55 8	14 1	1 43	2 87	3 74	4 26	---	---	1927
1928	---	---	---	8 90	8 27	20 1	45 7	17 8	8 03	3 77	---	---	---	1928
1929	---	---	---	15 8 R	5 28R	6 28R	2 12 R	0 220	0 278	---	---	---	---	1929
1930	---	---	---	---	19 8	6 28	10 9	0 524R	0 185	---	---	---	---	1930
1934	---	---	---	5 92R	1 86	1 37	0 472	0 051	0 047	0 938	---	---	---	1934
1935	---	---	---	15 2 R	8 44	2 50	3 28	1 29	1 29	0 726	---	---	---	1935
1936	---	---	---	12 6 R	17 3	2 89	0 284	0 004	0 521	---	---	---	---	1936
1962	---	---	0	13 3	42 7	80 5	27 3	24 8	10 4	1 86	---	---	22 5	1962
1963	---	---	2 09	36 5	23 4	24 9	8 42	1 82	0 250	0 888	---	---	12 1	1963
1964	---	---	0	18 2	25 9	22 3	24 3	2 70	3 86	23 1	---	---	14 9	1964
1965	---	---	0	37 4	71 3	42 6	24 8	3 88	7 43	22 5	---	---	26 2	1965
1966	---	---	10 5	75 5	87 9	48 5	18 7	5 31	4 82	1 87	---	---	31 0	1966
1967	---	---	0 711	58 3	68 3	23 3	3 70	0 583	0 034	0 049	---	---	19 3	1967
1968	---	---	0 738	20 7	5 36	32 8	50 8	44 7	47 4	20 6	---	---	26 3	1968
1969	---	---	0 998	45 8	63 7	20 8	3 87	4 05	1 90	4 44	---	---	18 2	1969
MEAN	---	---	1 88	28 4 R	31 6 R	24 0 R	17 7 R	7 03 R	5 53	7 76	4 26	---	21 8	MEAN

LOCATION - LAT 49 07 57 N
LONG 96 46 05 W
DRAINAGE AREA 4 450 km^2
NATURAL FLOW

R - REVISED SINCE JAN 1980

ROSEAU RIVER AT STUARTBURN - STATION NO. 05OD014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1924	---	---	---	---	1924
1925	---	85 4 ON JUL 3	---	---	1925
1926	---	47 3 ON JUL 8	---	---	1926
1927	---	114 ON MAY 24	---	---	1927
1928	---	51 3 ON JUL 5	---	---	1928
1929	---	28 9R ON APR 11	---	---	1929
1930	---	---	---	---	1930
1934	---	---	0 ON SEP 17 *	---	1934
1935	---	---	0 388 ON AUG 11	---	1935
1936	---	---	0 ON AUG 8	---	1936
1962	---	75 0 ON JUN 19	0 9 ON MAR 1	477 000	1962
1963	---	47 9 ON APR 26	0 9 ON MAR 1	257 000	1963
1964	---	39 8 ON JUN 24	0 9 ON MAR 1	315 000	1964
1965	---	94 0 ON MAY 5	0 9 ON MAR 1	554 000	1965
1966	---	118 ON MAY 4 *	0 985 ON SEP 30	858 000	1966
1967	---	84 4 ON APR 21	0 9 ON MAR 1	408 000	1967
1968	---	63 1 ON JUL 2	0 1428 ON MAR 1	599 000	1968
1969	---	83 5 ON MAY 1	0 9038 ON MAR 1	385 000	1969
				469 000	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

ROSEAU RIVER BELOW RAILWAY BRIDGE, DOMINION CITY - STATION NO. 05OD003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	18 4	19 8	19 8	9 71	3 52	4 99	8 18	7 93	1 84	---	1914
1915	0 283	0 227	0 429	10 2	21 7	19 8	27 4	5 32	0 732	1 90	2 56	1 27	7 88	1915
MEAN	0 283	0 227	0 429	14 3	20 8	19 8	18 5	3 92	2 85	4 84	5 24	1 56	7 88	MEAN

LOCATION - LAT 49 08 55 N
LONG 97 10 00 W

DRAINAGE AREA 5 590 km^2
NATURAL FLOW

ROSEAU RIVER BELOW RAILWAY BRIDGE, DOMINION CITY - STATION NO. 05OD003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	36 2 ON JUL 11 *	0 2278 ON FEB 1 *	242 000	1915
				242 000	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER NEAR CARIBOU - STATION NO. 05OD030

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1917	---	---	---	20 4	13 0	1 71	1 61	0 485	0 501	---	---	---	---	1917
1920	---	---	---	17 5	10 9	11 8	1 30	0 481	0 651	0 917	0 906	0 507	---	1920
1921	0 340	0 311	0 283	27 4	8 20	3 39	0 815	0 798	1 86	1 48	0 893	0 568	3 85	1921
1922	0 510	0 428	0 588	14 1	25 7	11 4	2 66	1 33	4 80	1 86	4 99	1 88	5 86	1922
1923	1 42	0 850	1 02	20 1	53 0	3 09	2 92	1 05	0 865	1 27	1 14	0 934	7 37	1923
1924	0 880	1 87	2 94	14 8	19 5	5 26	2 15	5 52	1 76	6 17	4 03	1 20	5 51	1924
1925	1 18	1 28	5 45	27 3	13 3	42 7	43 1	2 11	3 67	5 88	7 52	2 43	13 1	1925
1926	1 58	1 06	4 10	12 2	4 71	20 6	33 5	2 65	4 91	13 8	10 8	6 41	9 73	1926
1927	3 78	2 13	5 55	57 8	71 6	46 8	10 1	1 18	1 25	2 56	4 25	1 56	17 4	1927
1928	1 13	0 855	3 21	11 7	6 91	19 8	42 9	10 9	3 58	1 95	1 98	1 03	8 70	1928
1929	0 563	0 473	8 30	15 7	5 63	5 32	1 93	0 445	0 477	0 778	0 985	0 359	3 25	1929
1930	0 283	0 227	0 425	16 0	28 3	7 03	13 3	0 788	0 310	0 783	2 20	---	---	1930
1931	---	---	---	13 2	6 03	2 88	1 30	0 474	0 463	0 888	2 54	---	---	1931
1932	---	---	---	28 8	17 7	2 83	2 36	0 486	1 17	2 20	4 87	1 90	---	1932
1933	0 845	0 493	0 707	25 3	12 4	7 85	0 285	0 112	0 190	0 254	0 302	---	---	1933
1934	---	---	---	6 88	1 73	1 38	0 562	0 123	0 170	0 839	---	---	---	1934
1935	---	---	---	13 7	7 71	2 55	3 04	1 52	1 23	0 755	---	---	---	1935
1936	---	---	---	11 9	15 8	2 25	0 251	0 059	0 433	0 261	0 253	0 148	---	1936
1937	0 170	0 170	0 283	12 2	31 7	9 20	4 41	23 6	2 15	1 02	0 867	0 349	7 55	1937
1938	---	---	8 31	8 48	35 5	23 2	1 54	0 287	0 160	0 229	---	---	---	1938
1939	---	---	---	3 07	2 30	2 73	0 702	0 160	0 301	0 417	---	---	---	1939
1940	---	---	---	6 78	4 88	1 58	0 319	0 712	0 811	0 742	3 85	1 27	---	1940
1941	0 826	0 574	0 428	27 8	22 1	18 7	4 09	0 202	9 07	36 9	8 22	1 02	10 8	1941
1942	0 303	0 389	5 36	49 9	42 8	13 6	0 971	4 59	18 9	3 89	1 24	0 507	11 8	1942
1943	0 388	0 358	0 481	32 5	31 0	31 9	25 4	2 42	1 79	---	---	---	---	1943
1944	---	---	---	13 8	8 76	28 8	19 8	8 01	8 81	---	---	---	---	1944
1945	---	---	---	46 0	32 2	6 69	7 72	4 85	16 9	11 5	3 31	---	---	1945
1946	---	---	12 6	39 8	17 9	2 36	3 13	0 498	0 545	0 994	0 898	---	---	1946
1947	---	---	---	12 1	12 4	32 3	21 7	8 18	3 32	8 66	---	---	---	1947
1948	---	---	---	27 6	58 0	8 89	7 75	12 2	0 843	0 551	---	---	---	1948
1949	---	---	0 648	28 1	20 7	5 05	2 10	2 53	0 526	---	---	---	---	1949
1950	---	---	---	9 85	85 8	58 0	36 9	8 62	16 2	22 4	---	---	---	1950
1951	---	---	---	41 0	51 8	7 33	1 18	1 72	4 21	3 82	---	---	---	1951
1952	---	---	---	15 6	3 61	2 34	7 44	1 66	0 506	0 404	---	---	---	1952
1953	---	---	---	8 01	8 26	12 2	3 88	0 628	1 46	1 82	---	---	---	1953
1954	---	---	---	17 3	27 7	19 9	2 10	0 460	0 508	0 488	---	---	---	1954
1955	---	---	---	21 3	16 6	24 6	5 32	0 664	0 740	2 59	---	---	---	1955
1956	---	---	---	22 8	55 1	24 4	28 2	7 37	21 4	2 52	---	---	---	1956
1957	---	---	---	26 3	27 5	23 3	85 5	11 0	25 9	15 1	10 6	---	---	1957
1958	---	---	---	6 99	2 46	1 78	16 5	2 06	0 367	1 23	---	---	---	1958
1959	---	---	---	33 2	25 7	14 9	5 04	1 46	1 69	5 57	---	---	---	1959
1960	---	---	---	26 8	24 1	11 9	4 78	0 680	0 393	---	---	---	---	1960
1961	---	---	---	9 03	7 07	0 856	0 174	0 090	1 12	1 52	---	---	---	1961
1962	---	---	---	15 1	35 7	53 3	25 5	26 8	10 9	---	---	---	---	1962
1963	---	---	---	34 8	20 9	23 8	8 63	1 58	0 355	0 763	---	---	---	1963
1964	---	---	---	16 8	22 9	23 0	22 6	1 80	4 56	18 7	---	---	---	1964
1965	---	---	---	34 7	65 7	30 5	23 5	3 61	7 94	19 2	---	---	---	1965
1966	---	---	---	61 4	73 5	37 7	14 5	4 27	3 10	1 78	2 14	---	---	1966
1967	---	---	---	47 0	63 3	20 4	2 15	0 466	0 049	0 054	0 106	---	---	1967
1968	---	---	---	18 9	4 41	32 5	66 8	44 7	41 1	16 6	---	---	---	1968
1969	---	---	---	60 2	55 7	17 7	3 61	3 80	2 01	4 24	---	---	---	1969
1970	---	---	---	23 9	78 4	73 3	34 2	1 28	3 04	2 26	---	---	---	1970
1971	---	---	---	33 1	23 7	7 87	3 78	1 24	0 750	3 34	---	---	---	1971
1972	---	---	---	22 6	31 6	8 82	1 51	0 488	0 596	0 992	1 30	0 448	---	1972
1973	0 278	0 248	5 67	2 78	3 07	2 24	0 971	2 34	5 31	14 2	4 03	1 14	3 64	1973
1974	0 441	0 380	0 394	23 8	73 5	55 6	4 97	14 8	12 8	3 58	1 07	1 27	16 3	1974
1975	0 820	0 711	0 521	16 9	86 0	31 4	24 8	2 69	0 838	0 556	0 918	0 578	13 2	1975
1976	0 497	0 464	0 535	28 2	6 40	3 84	2 57	0 277	0 163	0 389	0 394	0 181	3 61	1976
1977	0 107	0 122	0 385	4 44	1 41	1 81	1 80	0 301	1 30	4 43	5 70	3 47	2 08	1977
1978	1 22	0 398	0 185	30 9	42 7	5 25	11 4	5 63	4 77	1 88	1 00	0 672	6 86	1978
1979	0 486	0 348	0 534	18 7	74 8	31 7	3 33	0 479	0 247	0 104	0 624	0 458	11 1	1979
1980	0 431	0 387	0 396	17 2	2 26	0 190	0 018	0 077	0 169	0 704	1 14	0 325	1 92	1980
1981	0 112	0 530	2 09	1 08	1 53	10 2	8 75	1 56	3 58	11 4	6 16	2 60	4 17	1981
1982	0 415	0 365	0 580	28 2	7 99	8 09	3 63	1 08	16 7	7 17	2 34	8 91	1982
1983	0 862	0 730	12 5	31 5	20 2	10 9	13 4	0 658	1 45	3 08	3 05	1 52	9 02	1983
1984	0 398	0 442	2 63	23 9	7 39	17 8	7 64	0 827	0 063	2 46	2 73	0 682	5 47	1984
MEAN	0 751	0 606	2 90	22 4	27 0	16 8	10 8	3 94	4 14	4 67	3 14	1 30	8 05	MEAN

LOCATION - LAT 46 58 54 N LONG 68 27 45 W DRAINAGE AREA 4 120 km² NATURAL FLOW INTERNATIONAL GAUGING STATION

REMARKS - PUBLISHED AS "AT CARIBOU" PRIOR TO APR 1929 AND AS "BELOW CUTOFF DITCH NEAR CARIBOU" FROM APR 1929-SEP 1936

ROSEAU RIVER NEAR CARIBOU - STATION NO. 05DD030

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1917	41.6 ON APR 17	38.8 ON APR 17	---	---	1917
1920	48.7 B ON APR 16	45.3 B ON APR 16	---	---	1920
1921	---	55.1 ON APR 11	0.2838 ON MAR 1	122 000	1921
1922	---	38.6 ON MAY 25	0.4268 ON FEB 1	188 000	1922
1923	---	84.4 ON MAY 1	0.823 ON SEP 2	232 000	1923
1924	---	34.8 ON APR 28	0.4538 ON DEC 18	174 000	1924
1925	---	80.8 ON JUL 1	0.7838 ON JAN 1	413 000	1925
1926	---	53.8 ON JUL 6	0.6788 ON MAR 13	307 000	1926
1927	89.5 ON MAY 24	89.5 ON MAY 24	0.783 ON AUG 28	849 000	1927
1928	---	47.3 ON JUL 6	0.7368 ON DEC 6	276 000	1928
1929	---	27.8 ON APR 10	0.311 ON AUG 30	102 000	1929
1930	---	39.1 ON MAY 20	---	---	1930
1931	32.3 ON APR 9	31.1 ON APR 9	---	---	1931
1932	---	48.4 ON APR 18	---	---	1932
1933	---	36.2 B ON APR 17	---	---	1933
1934	12.0 B AT 13:00 CST ON APR 13	10.7 B ON APR 13	---	---	1934
1935	28.1 B AT 10:00 CST ON APR 13	23.7 B ON APR 18	---	---	1935
1936	---	28.9 ON APR 27	---	---	1936
1937	---	36.5 ON MAY 11	0.1708 ON JAN 1	238 000	1937
1938	---	48.8 ON MAY 25	---	---	1938
1939	9.838 AT 09:00 CST ON APR 20	7.368 ON APR 20	---	---	1939
1940	23.6 B ON APR 22	23.7 B ON APR 23	---	---	1940
1941	---	47.6 ON APR 24	0.142 ON AUG 12	342 000	1941
1942	---	36.8 ON APR 13	0.1988 ON JAN 15	374 000	1942
1943	---	46.1 ON APR 21	---	---	1943
1944	---	36.0 ON JUN 27	---	---	1944
1945	---	48.8 ON APR 12	---	---	1945
1946	44.2 AT 15:30 CST ON APR 14	43.0 ON APR 6	---	---	1946
1947	---	50.4 ON JUN 28	---	---	1947
1948	---	88.7 ON MAY 2	---	---	1948
1949	---	41.9 ON APR 24	---	---	1949
1950	116 AT 20:30 CST ON MAY 19 *	114 ON MAY 19 *	---	---	1950
1951	82.3 AT 18:00 CST ON MAY 2	82.0 ON MAY 2	---	---	1951
1952	---	30.3 ON APR 12	---	---	1952
1953	22.6 AT 08:00 CST ON JUN 6	22.5 ON JUN 5	---	---	1953
1954	---	33.6 ON MAY 9	---	---	1954
1955	---	30.6 ON JUN 13	---	---	1955
1956	---	65.1 ON MAY 2	---	---	1956
1957	50.7 AT 11:00 CST ON JUL 12	50.4 ON JUL 19	---	---	1957
1958	24.8 AT 12:00 CST ON JUL 20	24.7 ON JUL 20	---	---	1958
1959	---	44.5 ON APR 20	---	---	1959
1960	48.7 AT 20:00 CST ON APR 27	48.4 ON APR 28	---	---	1960
1961	17.3 B ON MAR 29	17.0 B ON MAR 30	---	---	1961
1962	58.8 AT 03:30 CST ON JUN 11	58.3 ON JUN 11	---	---	1962
1963	---	42.8 ON APR 28	---	---	1963
1964	---	40.5 ON JUL 1	---	---	1964
1965	78.2 AT 10:15 CST ON MAY 6	75.9 ON MAY 6	---	---	1965
1966	86.3 AT 21:00 CST ON APR 28	86.1 ON APR 28	---	---	1966
1967	86.2 AT 03:00 CST ON MAY 12	86.0 ON MAY 11	---	---	1967
1968	---	52.7 ON JUL 3	---	---	1968
1969	70.2 AT 18:00 CST ON APR 28	69.9 ON APR 28	---	---	1969
1970	83.3 AT 15:00 CST ON MAY 15	83.0 ON MAY 15	---	---	1970
1971	49.3 AT 19:00 CST ON APR 21	49.0 ON APR 20	---	---	1971
1972	47.9 AT 02:00 CST ON MAY 2	47.6 ON APR 30	---	---	1972
1973	---	30.5 ON OCT 1	0.2278 ON FEB 11	118 000	1973
1974	77.0 ON MAY 14	76.5 ON MAY 28	0.3668 ON FEB 13	513 000	1974
1975	---	71.8 ON MAY 8	0.311 ON OCT 11	418 000	1975
1976	37.7 AT 00:30 CST ON APR 6	37.4 ON APR 6	0.081 ON SEP 20	114 000	1976
1977	10.8 B ON APR 10	10.3 B ON APR 10	0.0888 ON JAN 17	65 500	1977
1978	84.0 AT 12:30 CST ON APR 28	82.8 ON APR 27	0.1848 ON MAR 14	278 000	1978
1979	84.4 ON MAY 8	84.1 ON MAY 8	0.067 ON OCT 15	351 000	1979
1980	39.7 AT 15:00 CST ON APR 14	39.7 ON APR 14	0.001 ON AUG 3 *	80 800	1980
1981	21.0 AT 13:00 CST ON JUL 4	20.8 ON JUL 4	0.0888 ON JAN 11	131 000	1981
1982	47.1 AT 18:30 CST ON MAY 1	47.0 ON APR 30	0.3408 ON JAN 18	281 000	1982
1983	38.8 B ON APR 8	38.4 B ON APR 8	0.231 ON AUG 27	285 000	1983
1984	34.8 B AT 05:00 CST ON APR 3	34.0 B ON APR 3	0.008 ON OCT 4	173 000	1984
				254 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER NEAR DOMINION CITY - STATION NO. 05DD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	0.588	0	0	32.8	19.1	6.42	4.91	1.93	1.80	2.35	2.42	1.13	8.10	1913
1914	0.170	0.142	0.708	18.1	17.7	17.0	8.44	2.12	---	---	---	---	---	1914
1916	---	---	---	---	---	---	---	---	---	---	---	---	---	1916
1917	0.500	0.333	0.835	13.1	19.0	2.40	5.33	2.08	2.78	2.72	2.31	0.389	---	1917
1918	0.080	0	0.763	4.82	3.78	6.13	2.13	0.840	0.617	0.842	2.53	0.713	3.39	1918
1919	0.584	0.528	0.870	18.0	8.89	9.89	3.41	1.56	0.605	1.45	4.02	1.87	2.26	1919
								48.0	19.8	3.46	2.84	1.98	1.21	9.75	
1920	0.532	0.528	1.82	31.1	12.2	13.0	1.81	0.372	0.480	1.25	0.847	0.311	5.29	1920
1921	0.227	0.340	0.881	24.1	10.8	4.94	1.21	1.02	1.75	1.85	0.801	0.714	4.03	1921
1922	0.298	0.142	0.482	18.9	22.7	18.2	2.96	1.58	4.66	2.16	4.32	1.38	8.17	1922
1923	0.888	0.884	0.432	18.4	58.3	5.76	4.24	1.48	1.30	2.01	2.08	0.884	8.12	1923
1924	0.090	0.030	0.113	16.8	23.4	8.18	2.39	8.44	2.11	8.84	2.71	0.730	5.72	1924
1925	0.240	0.288	3.86	27.8	18.1	48.4	44.7	4.38	8.31	7.08	4.12	1.30	13.6	1925
1926	0.484	0.282	2.85	18.9	5.14	17.0	33.8	6.04	10.4	33.8	9.88	2.87	10.7	1926
1927	2.00	1.40	7.28	84.2	87.4	88.4	18.0	2.38	2.88	4.23	---	---	---	1927
1928	---	---	---	7.82	7.12	17.2	41.8	16.8	4.88	3.83	---	---	---	1928
1929	---	---	---	17.8	5.83	8.74	2.03	0.483	0.380	0.881	---	---	---	1929
1930	---	---	---	17.8	29.5	6.08	13.9	0.881	0.218	0.838	---	---	---	1930
1931	---	---	---	13.4	8.42	3.88	1.41	0.536	0.601	1.00	3.14	---	---	1931
1932	---	---	---	32.8	22.4	3.88	2.27	0.382	1.29	2.31	---	---	---	1932
1933	---	---	---	27.8	15.4	11.8	0.418	0.047	0.121	0.287	---	---	---	1933
1934	---	---	---	8.45	1.85	1.13	0.883	0.028	0.028	0.888	---	---	---	1934
1935	---	---	---	15.2	8.83	2.80	3.08	1.41	1.38	0.817	---	---	---	1935
1936	---	---	---	11.0	17.8	2.83	0.288	0.001	0.283	0.188	---	---	---	1936
1937	---	---	---	13.2	38.2	10.7	7.28	28.7	3.13	1.38	---	---	---	1937
1938	---	---	---	10.1	33.8	27.7	2.10	0.442	0.181	0.238	---	---	---	1938
1939	---	---	---	3.81	3.04	2.84	0.918	0.031	0.189	0.484	0.388	---	---	1939
1940	---	---	---	8.08	5.50	1.41	0.248	0.383	0.883	0.714	---	---	---	1940
1941	---	---	---	28.1	28.1	18.0	5.41	0.282	7.88	41.8	---	---	---	1941
1942	---	---	---	88.5	44.7	17.8	1.18	3.63	18.8	4.58	---	---	---	1942
1943	---	---	---	34.8	34.8	33.8	28.3	2.84	1.87	0.788	---	---	---	1943
1944	---	---	---	14.8	9.28	28.4	23.0	10.4	17.2	3.81	17.8	---	---	1944
1945	---	---	---	84.1	40.5	8.18	8.87	4.21	18.8	13.7	---	---	---	1945
1946	---	---	18.4	44.2	19.3	3.01	3.15	0.384	0.808	1.82	---	---	---	1946
1947	---	---	---	18.0	13.3	32.8	24.8	8.20	4.14	13.4	---	---	---	1947
1948	---	---	---	37.1	80.4	13.1	10.8	14.8	1.38	0.387	0.728	0.812	---	1948
1949	0.488	0.438	0.408	28.0	23.4	8.88	2.08	3.78	0.834	3.82	8.05	1.88	8.82	1949
1950	0.882	0.838	0.801	21.8	142	81.3	40.1	11.0	18.2	27.8	7.87	2.48	28.0	1950
1951	1.38	0.918	1.78	48.8	87.8	18.8	1.10	1.80	4.08	3.81	1.80	1.07	11.0	1951
1952	0.480	0.403	0.488	13.8	4.48	2.84	7.04	1.87	0.381	0.381	0.885	0.488	2.88	1952
1953	0.280	0.358	1.78	8.20	8.48	15.3	4.43	0.781	1.13	1.88	1.48	0.888	3.78	1953
1954	0.387	0.413	0.817	18.8	31.2	27.1	3.43	0.873	0.878	0.838	0.488	0.442	7.08	1954
1955	0.323	0.210	0.188	31.3	20.4	28.8	7.42	0.880	0.727	3.21	1.80	0.883	8.81	1955
1956	0.811	0.803	0.287	30.8	88.7	38.0	24.8	8.74	28.2	3.30	22.8	4.11	17.8	1956
1957	0.838	0.480	8.88	41.7	32.7	28.2	88.1	18.8	28.1	18.4	13.0	2.13	20.2	1957
1958	0.783	0.823	1.40	8.84	2.87	3.10	15.8	2.84	0.402	1.08	3.44	2.42	3.31	1958
1959	0.838	0.413	0.477	28.0	28.7	31.8	8.42	1.81	1.82	8.88	4.73	0.840	8.08	1959
1960	0.382	0.388	0.208	38.8	27.7	11.8	4.77	1.28	0.870	0.380	2.08	0.288	7.33	1960
1961	0.141	0.842	2.28	10.8	7.74	1.11	0.288	0.103	0.872	2.10	1.08	0.388	2.23	1961
1962	0.348	0.348	0.132	18.7	42.8	88.8	28.4	23.8	13.3	3.10	3.78	2.72	18.2	1962
1963	0.488	0.281	4.00	38.4	22.8	28.0	12.2	3.08	0.880	0.777	0.887	0.283	8.81	1963
1964	0.071	0.047	0.127	18.4	28.8	24.1	24.8	4.18	4.22	18.4	8.44	1.37	11.1	1964
1965	0.182	0.087	0.082	43.7	71.8	48.0	28.8	8.81	8.28	23.8	14.1	7.88	20.7	1965
1966	3.88	2.13	8.88	82.8	87.1	48.8	18.8	4.48	8.27	1.78	1.88	1.82	24.1	1966
1967	0.888	0.217	1.38	73.3	78.3	28.2	3.88	0.877	0.080	0.284	0.388	0.718	15.3	1967
1968	0.348	0.080	0.801	18.8	8.83	31.7	81.8	48.7	47.0	18.0	10.7	3.40	18.8	1968
1969	1.18	0.848	1.01	48.8	88.8	20.3	4.28	3.87	2.03	4.28	3.07	1.48	12.3	1969
1970	0.884	0.814	0.848	28.8	83.2	81.2	38.1	2.00	3.28	2.12	7.34	1.80	21.8	1970
1971	0.887	0.424	0.821	38.8	27.7	10.3	3.70	1.24	0.827	2.88	11.2	2.41	8.18	1971
1972	0.873	0.480	1.28	22.8	33.8	10.2	2.03	0.840	0.400	1.09	0.880	0.281	8.22	1972
1973	0.301	0.281	8.88	3.18	3.84	2.48	1.07	2.38	4.88	17.1	8.28	1.85	4.21	1973
1974	0.878	0.847	0.482	37.4	100	84.3	7.80	13.3	18.4	3.88	3.22	1.38	20.7	1974
1975	0.813	0.838	0.888	18.4	84.8	33.3	37.2	3.74	0.787	0.788	1.17	0.588	13.7	1975
1976	0.584	0.274	0.384	27.8	8.84	3.28	2.72	0.288	0.107	0.247	0.322	0.087	3.84	1976
1977	0.088	0.084	0.404	4.18	1.27	1.81	1.88	0.384	0.888	8.08	4.38	3.82	1.87	1977
1978	1.82	0.807	0.743	34.1	48.8	8.11	10.1	8.08	4.44	1.71	1.32	0.802	8.83	1978
1979	0.800	0.382	0.478	31.7	88.8	38.8	3.18	0.788	0.308	0.178	0.888	0.483	13.8	1979
1980	0.388	0.338	0.280	18.4	2.84	0.337	0.087	0.004	0.483	1.28	0.880	0.307	2.21	1980
1981	0.310	0.503	2.71	2.17	1.38	8.28	8.37	1.81	3.43	11.0	8.28	2.88	4.18	1981
1982	0.888	0.882	1.87	30.4	40.2	11.8	8.78	3.82	1.81	18.8	8.78	4.40	11.2	1982
1983	1.22	0.847	28.8	48.4	28.8	18.3	18.3	0.873	1.70	2.87	3.88	1.88	12.8	1983
1984	0.887	0.488	1.73	28.8	7.88	18.3	8.38	1.38	1.08	3.83	3.38	0.788	8.88	1984
MEAN	0.840	0.448	2.30	28.8	30.8	18.8	12.8	4.88	4.84	5.23	4.42	1.81	8.88	MEAN

LOCATION - LAT 49 11 53 N DRAINAGE AREA, 8 180 km²
LONG 97 03 15 W NATURAL FLOW

ROSEAU RIVER NEAR DOMINION CITY - STATION NO. 05OD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	58.1 ON APR 25	0 E ON FEB 1 *	193 000	1913
1914	---	24.8 ON APR 30	---	---	1914
1915	---	---	---	---	1915
1916	---	---	---	---	1916
1917	---	30.38 ON APR 28	0.071 ON SEP 22	104 000	1917
1918	---	10.9 ON JUN 1	0 B ON JAN 26	74 800	1918
1919	---	72.2 ON JUL 23	0.2278 ON FEB 28	307 000	1919
1920	---	51.28 ON APR 18	0.142 ON AUG 27	187 000	1920
1921	---	58.4 ON APR 16	0.2278 ON JAN 1	127 000	1921
1922	---	34.5 ON MAY 30	0.1138 ON FEB 7	194 000	1922
1923	---	61.0 ON MAY 4	0.2558 ON MAR 19	256 000	1923
1924	---	55.2 ON APR 27	0 B ON JAN 20	181 000	1924
1925	---	80.3 ON JUN 21	0.1708 ON JAN 18	426 000	1925
1926	---	44.2 ON JUL 9	0.2418 ON MAR 14	338 000	1926
1927	---	142 ON MAY 10	---	---	1927
1928	---	48.0 ON JUL 7	---	---	1928
1929	---	28.6 ON APR 12	---	---	1929
1930	---	40.8 ON MAY 21	---	---	1930
1931	---	35.7 ON APR 9	---	---	1931
1932	---	54.7 ON APR 16	---	---	1932
1933	---	47.0 ON APR 16	---	---	1933
1934	---	---	---	---	1934
1935	---	---	---	---	1935
1936	---	30.3 ON MAY 2	0 ON AUG 6	---	1936
1937	---	46.4 ON MAY 2	---	---	1937
1938	---	49.6 ON MAY 29	---	---	1938
1939	---	---	---	---	1939
1940	---	22.2 ON APR 24	---	---	1940
1941	---	50.1 ON OCT 10	---	---	1941
1942	---	69.9 ON APR 4	---	---	1942
1943	---	48.6 ON APR 24	---	---	1943
1944	---	41.3 ON SEP 5	---	---	1944
1945	---	59.7 ON MAR 26	---	---	1945
1946	---	46.7 ON APR 7	---	---	1946
1947	---	51.5 ON JUN 30	---	---	1947
1948	---	51.3 ON APR 21	---	---	1948
1949	---	43.6 ON APR 28	0.276 ON OCT 4	203 000	1949
1950	---	230 ON MAY 5 *	0.4818 ON JAN 30	882 000	1950
1951	---	73.9 ON MAY 2	0.340 ON AUG 3	347 000	1951
1952	---	26.88 ON APR 18	0.198 ON SEP 27	85 200	1952
1953	---	33.7 ON JUN 5	0.1988 ON JAN 18	119 000	1953
1954	---	49.6 ON APR 30	0.2558 ON NOV 6	223 000	1954
1955	---	47.0 ON APR 23	0.085 ON MAR 23	253 000	1955
1956	---	87.6 ON APR 25	0.1988 ON MAR 18	586 000	1956
1957	---	93.7 ON JUL 14	0.3688 ON MAR 18	838 000	1957
1958	---	24.1 ON JUL 21	0.188 ON OCT 7	105 000	1958
1959	---	61.88 ON APR 13	0.2838 ON FEB 24	268 000	1959
1960	---	74.6 ON APR 15	0.0748 ON JAN 21	232 000	1960
1961	---	15.98 ON APR 3	0.014 ON SEP 7	70 300	1961
1962	---	77.0 ON MAY 25	0.0618 ON MAR 21	510 000	1962
1963	---	46.2 ON JUN 27	0.0208 ON JAN 18	300 000	1963
1964	40.6 AT 07:00 CST ON JUN 21	40.2 ON JUN 21	0 B ON MAR 9	351 000	1964
1965	80.6 AT 12:00 CST ON MAY 7	80.0 ON MAY 7	0.0178 ON MAR 1	653 000	1965
1966	131 AT 01:00 CST ON MAY 5	130 ON MAY 5	1.07 B ON DEC 31	758 000	1966
1967	124 AT 01:00 CST ON APR 22	121 ON APR 22	0.003 ON SEP 30	481 000	1967
1968	85.6 AT 11:00 CST ON JUL 14	85.7 ON JUL 14	0.0178 ON FEB 25	618 000	1968
1969	75.6R AT 02:30 CST ON MAY 1	75.6 ON APR 30	0.7228 ON APR 1	388 000	1969
1970	110 AT 18:00 CST ON MAY 15	110 ON MAY 15	0.4308 ON MAR 27	887 000	1970
1971	84.7 AT 21:09 CST ON APR 15	84.4 ON APR 15	0.3178 ON FEB 9	257 000	1971
1972	---	47.8 ON MAY 3	0.1588 ON DEC 11	197 000	1972
1973	---	20.4 ON OCT 4	0.2298 ON FEB 13	133 000	1973
1974	148 AT 09:30 CST ON MAY 22 *	145 ON MAY 22	0.4668 ON MAR 18	852 000	1974
1975	75.3 AT 00:00 CST ON MAY 6	75.3 ON MAY 6	0.388 ON SEP 27	432 000	1975
1976	---	42.28 ON APR 7	0 ON SEP 21	112 000	1976
1977	---	11.88 ON APR 12	0.0468 ON JAN 13	82 200	1977
1978	84.3 AT 10:28 CST ON APR 28	84.0 ON APR 28	0.2888 ON MAR 6	300 000	1978
1979	104 AT 14:19 CST ON MAY 13	103 ON MAY 13	0.088 ON OCT 10	434 000	1979
1980	45.0 AT 22:01 CST ON APR 14	40.8 ON APR 15	0 ON JUL 13	88 800	1980
1981	18.8 AT 07:21 CST ON JUL 6	18.6 ON JUL 5	0.0888 ON JAN 17	132 000	1981
1982	80.0 AT 00:15 CST ON MAY 5	80.0 ON MAY 4	0.2578 ON FEB 17	384 000	1982
1983	98.9 AT 00:01 CST ON APR 9	98.5 ON APR 9	0.4358 ON FEB 8	377 000	1983
1984	67.1 AT 21:50 CST ON APR 5	66.18 ON APR 5	0 B ON FEB 6	182 000	1984
				318 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

ROSEISLE CREEK NEAR ROSEISLE - STATION NO. 05DF008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1985	---	---	0	2.88	0.572	0.241	0.132	0.087	0.150	0.178	---	---	0.498	1985
1986	---	---	1.74	3.08	1.56	0.120	1.32	0.033	0.010	0.011	---	---	0.883	1986
1987	---	---	0.078	4.61	1.06	0.059	0.340	0.002	0	0	---	---	0.744	1987
1988	---	---	0.527	0.382	0.464	0.054	0.318	2.34	0.767	0.201	---	---	0.636	1988
1989	---	---	0	8.09	1.11	1.43	2.83	0.142	0.028	0.054	---	---	1.41	1989
1990	---	---	0	5.87	5.87	0.342	0.058	0.004	0.002	0.012	---	---	1.48	1990
1991	---	---	0	4.23	0.508	0.880	0.422	0.084	0.074	0.818	---	---	0.852	1991
1992	---	---	0.861	2.73	0.885	0.110	0.028	0.018	0.012	0.018	---	---	0.588	1992
1993	---	---	0.578	0.180	0.137	0.484	0.167	0.075	0.014	0.038	---	---	0.205	1993
1994	---	---	0.001	7.81	3.72	0.441	0.029	0.007	0.008	0.008	---	---	1.48	1994
1995	---	---	0.008	1.57	0.833	0.881	0.332	0.014	0.010	0.024	---	---	0.430	1995
1996	---	---	0.075	5.07	0.226	0.081	0.004	0.004	0	0	---	---	0.870	1996
1997	---	---	0.015	0.112	0.763	0.052	0.002	0	0.232	0.128	---	---	0.182	1997
1998	---	---	0.017	3.49	0.877	0.413	0.738	0.088	0.082	0.081	---	---	0.708	1998
1999	---	---	0.020	8.77	4.01	0.805	0.118	0.028	0.012	0.025	---	---	1.44	1999
2000	---	---	0	1.37	0.111	0.009	0.002	0	0.001	0.015	---	---	0.188	2000
2001	---	0.138	0.118	0.081	0.075	0.418	0.110	0.050	0.003	0.020	---	---	0.109	2001
2002	---	---	0.175	1.04	0.169	0.085	0.014	0.001	0	0.014	---	---	0.182	2002
2003	---	---	0.322	2.37	0.155	0.084	0.014	0	0	0	---	---	0.380	2003
2004	---	---	0.186	0.247	0.416	0.225	0.014	0	0	0.002	---	---	0.138	2004
MEAN	---	0.138	0.242	2.99	1.14	0.388	0.333	0.147	0.070	0.071	---	---	0.883	MEAN

LOCATION - LAT 49 30 10 N DRAINAGE AREA, 212 km²
LONG 98 19 40 W NATURAL FLOW

ROSEISLE CREEK NEAR ROSEISLE - STATION NO. 05DF008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1985	---	11.0 ON APR 15	0 B ON MAR 1 *	10 500	1985
1986	---	14.3 B ON APR 1	0 B ON MAR 1	20 800	1986
1987	---	20.5 ON APR 20	0 B ON MAR 1	15 800	1987
1988	---	18.4 ON AUG 25	0 B ON MAR 1	13 500	1988
1989	---	29.4 ON APR 12	0 B ON MAR 1	29 900	1989
1990	---	40.5 ON APR 29 *	0 B ON MAR 1	31 500	1990
1991	---	27.1 ON APR 10	0 B ON MAR 1	18 100	1991
1992	---	8.088 ON APR 14	0 B ON MAR 1	12 000	1992
1993	---	1.03 ON JUN 18	0 B ON MAR 1	4 340	1993
1994	40.2 AT 12:05 CST ON APR 21 *	37.7 ON APR 21	0.0018 ON MAR 5	31 400	1994
1995	24.6 AT 13:41 CST ON JUN 28	8.36 ON JUN 28	0.0018 ON MAR 24	9 110	1995
1996	21.7 AT 04:17 CST ON APR 8	16.8 ON APR 8	0 ON JUL 28	14 200	1996
1997	8.41 AT 05:25 CST ON MAY 20	8.40 ON MAY 19	0 B ON MAR 1	3 440	1997
1998	---	10.1 B ON APR 10	0 B ON MAR 1	15 000	1998
1999	37.7 AT 04:58 CST ON APR 21	34.0 ON APR 21	0.008 ON SEP 17	30 400	1999
2000	---	5.818 ON APR 8	0 B ON MAR 1	3 920	2000
2001	---	4.84E ON JUN 24	0.001 ON SEP 15	2 310	2001
2002	5.83B AT 20:31 CST ON APR 12	4.35B ON APR 12	0 B ON MAR 1	3 880	2002
2003	11.7 B AT 22:14 CST ON APR 7	8.93B ON APR 8	0 B ON MAR 1	7 820	2003
2004	---	1.30E ON JUN 2	0 B ON MAR 1	2 870	2004
				14 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

SASKATCHEWAN RIVER AT GRAND RAPIDS - STATION NO. 05KL001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	1 670	1 830	1 780	770	---	---	1912
1913	---	---	---	---	---	1 300	1 440	1 880	1 330	839	586	340	---	1913
1914	---	---	---	---	812	926	1 190	1 150	---	---	---	---	---	1914
1915	127	142	186	285	836	715	1 810	2 100	2 140	1 380	583	227	827	1915
1916	311	215	153	220	952	1 400	1 810	2 320	2 110	1 740	1 010	579	1 080	1916
1917	453	284	243	300	1 030	1 890	2 220	1 810	1 240	778	606	309	938	1917
1918	288	215	226	503	887	888	1 190	1 320	---	---	---	---	---	1918
1920	---	---	---	---	---	---	---	---	---	818	---	---	---	1920
1921	---	---	---	---	1 080	1 320	1 480	1 820	1 340	1 210	---	---	---	1921
1922	---	---	---	---	1 880	1 880	1 880	1 810	1 100	728	---	---	---	1922
1923	---	---	---	---	717	1 150	1 800	1 800	1 410	847	---	---	---	1923
1924	---	---	---	---	838	1 440	1 910	1 880	1 780	1 980	1 420	---	---	1924
1925	---	---	---	---	1 570	1 820	1 740	1 420	918	818	---	---	---	1925
1926	---	---	---	---	1 430	1 780	1 870	1 210	800	844	---	---	---	1926
1927	---	---	---	---	1 010	1 310	1 080	718	808	848	---	---	---	1927
1928	---	---	---	---	1 180	1 080	1 120	1 020	728	893	---	---	---	1928
1929	---	---	---	---	809	849	1 240	1 080	788	837	---	---	---	1929
1930	---	---	---	---	1 010	1 180	1 180	1 010	819	---	---	---	---	1930
1931	---	---	---	---	705	824	873	782	872	---	---	---	---	1931
1932	---	---	---	---	---	1 100	1 050	---	---	---	---	---	---	1932
1934	---	---	---	---	---	---	---	---	0	0	0	0	---	1934
1935	0	0	131	834	1 410	1 780	2 110	1 800	987	818	588	488	878	1935
1936	606	580	558	458	1 380	773	1 440	895	788	378	501	812	748	1936
1937	698	702	812	473	486	532	821	881	801	808	824	574	680	1937
1938	891	885	218	393	482	300	212	208	238	338	528	782	423	1938
1939	945	858	807	527	423	385	477	894	409	574	692	828	833	1939
1970	1 030	1 010	858	388	428	481	848	883	537	302	858	856	828	1970
1971	878	857	984	828	822	492	428	528	891	438	812	783	843	1971
1972	883	808	770	858	528	512	828	1 040	880	701	811	872	728	1972
1973	804	803	882	385	87.8	882	938	705	237	441	850	888	873	1973
1974	1 000	898	1 100	890	818	2 870	1 850	808	957	828	883	966	1 070	1974
1975	1 150	1 140	1 110	411	338	380	785	883	757	485	384	988	710	1975
1976	882	788	888	483	388	139	138	110	118	128	317	1 040	448	1976
1977	882	801	471	280	885	288	283	158	383	488	730	738	803	1977
1978	708	878	438	408	203	188	180	288	380	802	743	838	487	1978
1979	1 180	1 130	838	301	278	803	481	248	173	222	280	712	830	1979
1980	888	811	827	188	227	248	728	888	844	783	727	720	814	1980
1981	828	323	117	127	287	834	785	888	728	481	408	888	821	1981
1982	1 180	888	718	884	288	211	217	288	488	388	438	483	481	1982
1983	884	1 180	1 110	888	308	384	172	374	344	891	480	1 080	802	1983
1984	780	480	884	420	448	487	328	378	227	388	378	880	485	1984
MEAN	728	677	813	440	713	918	1 030	988	801	881	575	878	857	MEAN

LOCATION - LAT 53 09 50 N
LONG 99 20 58 W

DRAINAGE AREA, 383 000 km²
REGULATED SINCE 1964

DATA CONTRIBUTED BY -
MANITOBA HYDRO

SASKATCHEWAN RIVER AT GRAND RAPIDS - STATION NO. 05KL001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	1 610 ON AUG 28	---	---	1914
		1 550 ON AUG 8	---	---	
1915	---	---	---	---	1915
1916	---	2 380 ON SEP 12	---	---	1916
1917	---	2 480 ON AUG 20	127 B ON JAN 1	28 100 000	1917
1918	---	2 310 ON JUL 18	183 B ON MAR 1	34 200 000	1918
		1 380 ON AUG 7	221 B ON MAR 2	28 500 000	
1919	---	---	208 B ON MAR 7	---	1919
1920	---	---	---	---	1920
1921	---	---	---	---	1921
1922	---	---	---	---	1922
1923	---	1 790 ON JUL 29	---	---	1923
1924	---	1 880 ON AUG 31	---	---	1924
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1927	---	---	---	---	1927
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	---	---	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
1934	---	---	---	---	1934
1935	---	---	---	---	1935
1936	---	2 110 ON JUL 1	0 ON JAN 1 *	27 700 000	1936
1937	---	1 440 ON JUL 1	379 ON OCT 1	23 800 000	1937
1938	---	884 ON NOV 28	238 ON DEC 24	18 300 000	1938
1939	---	1 050 ON DEC 31	1.86 ON AUG 4	13 400 000	1939
		1 110 ON JAN 10	10.2 ON JUN 15	20 000 000	
1970	---	---	---	---	1970
1971	---	1 230 ON FEB 3	118 ON APR 28	19 800 000	1971
1972	---	1 200 ON MAR 11	133 ON MAY 23	20 300 000	1972
1973	---	1 190 ON AUG 12	181 ON MAY 21	23 100 000	1973
1974	---	1 330 ON JUN 28	49.8 ON MAY 19	18 100 000	1974
		3 280 ON JUN 19 *	198 ON DEC 26	33 800 000	
1975	---	---	---	---	1975
1976	---	1 320 ON FEB 14	81.2 ON NOV 15	22 400 000	1976
1977	---	1 410 ON DEC 21	80.7 ON JUL 4	14 100 000	1977
1978	---	1 400 ON JAN 10	53.8 ON OCT 2	15 900 000	1978
1979	---	1 230 ON DEC 8	85.8 ON APR 30	14 400 000	1979
		1 420 ON JUN 15	76.7 ON SEP 15	15 700 000	
1980	---	---	---	---	1980
1981	---	1 020 ON NOV 15	87.9 ON MAY 31	15 400 000	1981
1982	---	1 410 ON AUG 8	88.4 ON MAY 3	18 400 000	1982
1983	---	1 300 ON JAN 3	56.4 ON OCT 24	15 800 000	1983
1984	---	1 380 ON FEB 9	82.8 ON JUN 12	18 000 000	1984
		1 420 ON MAR 12	92.3 ON SEP 23	15 400 000	
				20 700 000	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SASKATCHEWAN RIVER AT THE PAS - STATION NO. 05KJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	158	156	184	988	1 610	1 430	1 710	1 850	1 270	708	388	227	887	1913
1914	170	142	127	706	1 280	1 280	1 850	1 140	714	585	476	248	712	1914
1915	127	146	158	895	710	1 270	2 240	2 880	1 850	888	594	188	975	1915
1916	152	121	146	953	1 250	1 740	2 850	2 520	1 870	1 420	845	288	1 170	1916
1917	182	176	176	907	1 930	2 280	2 400	1 800	800	898	540	204	883	1917
1918	124	148	178	1 030	846	927	1 410	1 180	832	588	368	150	880	1918
1919	135	147	128	480	847	842	873	781	884	589	182	88.7	458	1919
1920	82.8	78.4	82.8	130	1 730	1 880	1 740	1 500	771	434	284	188	747	1920
1921	83.0	78.7	98.2	282	1 750	1 880	1 820	1 140	833	580	342	234	728	1921
1922	177	138	132	430	1 280	1 430	1 380	1 080	985	801	384	178	887	1922
1923	123	117	112	345	888	1 330	2 280	1 830	1 240	848	282	158	782	1923
1924	97.4	92.0	113	174	948	977	1 240	942	838	478	214	178	528	1924
1925	138	118	124	895	1 230	1 310	1 880	1 110	1 200	870	482	258	788	1925
1926	177	154	200	551	888	888	881	725	975	1 280	844	225	854	1926
1927	218	185	184	483	1 780	1 820	2 150	1 980	1 510	1 380	758	403	1 070	1927
1928	303	273	261	783	1 480	1 300	2 180	1 880	880	417	213	111	838	1928
1929	72.8	70.8	88.9	303	802	1 220	1 140	528	418	242	117	83.8	424	1929
1930	84.7	83.8	70.2	834	737	984	1 180	813	528	328	243	132	490	1930
1931	112	102	118	480	440	803	1 080	815	844	844	320	---	---	1931
1932	---	---	---	---	1 140	1 800	1 770	1 080	803	807	353	181	---	1932
1933	170	180	180	810	1 420	1 820	1 810	913	888	421	322	243	872	1933
1934	172	202	234	878	1 880	1 420	1 810	1 000	857	488	428	295	730	1934
1935	181	143	213	837	1 080	1 080	1 380	1 250	830	331	188	133	898	1935
1936	102	90.7	91.3	438	1 800	1 280	878	828	487	280	188	87.4	800	1936
1937	80.1	87.1	83.8	808	837	824	933	711	388	306	---	---	---	1937
1938	---	---	---	---	880	1 020	1 380	898	838	428	---	---	---	1938
1939	---	---	---	---	888	708	1 420	818	682	302	---	---	---	1939
1940	---	---	---	---	1 280	948	888	803	415	428	188	118	---	1940
1941	102	78.8	78.8	820	388	380	840	,70	413	274	267	83.8	307	1941
1942	86.4	81.8	88.1	428	838	1 180	1 830	1 810	842	810	318	178	827	1942
1943	158	134	147	1 030	1 370	1 010	1 420	1 080	831	348	270	122	847	1943
1944	110	104	103	801	498	880	1 470	1 080	778	437	214	137	837	1944
1945	88.8	118	133	512	823	1 210	1 400	878	882	827	288	182	887	1945
1946	173	188	182	1 000	717	878	1 380	834	888	428	248	128	884	1946
1947	183	184	173	818	1 480	1 330	1 320	882	878	842	488	262	898	1947
1948	284	203	180	333	2 280	2 850	2 230	1 450	927	437	187	103	935	1948
1949	88.7	78.2	102	711	802	780	703	713	430	288	322	128	408	1949
1950	85.1	121	128	444	854	842	1 380	1 080	308	378	214	188	834	1950
1951	178	188	188	788	1 810	1 880	1 780	1 810	1 280	1 110	717	288	940	1951
1952	212	228	240	1 180	1 840	1 280	1 840	1 480	918	831	381	183	888	1952
1953	138	128	188	813	1 220	1 830	2 080	1 480	1 020	817	320	148	783	1953
1954	134	133	187	302	1 270	1 880	2 070	1 700	1 880	1 880	1 180	814	1 110	1954
1955	388	348	272	1 180	1 820	1 880	1 820	1 200	804	428	184	148	838	1955
1956	180	178	188	820	1 980	1 780	1 430	1 070	888	471	307	184	748	1956
1957	131	87.0	124	578	1 480	1 370	912	881	818	377	383	208	885	1957
1958	183	188	188	1 080	1 210	1 200	1 180	904	484	388	224	123	808	1958
1959	183	141	188	857	888	848	1 430	918	481	478	308	282	877	1959
1960	207	178	174	1 040	878	1 020	1 080	788	382	271	187	148	837	1960
1961	138	128	137	828	834	1 120	788	810	388	228	188	88.8	412	1961
1962	128	183	178	388	1 130	881	887	782	421	124	104	110	438	1962
1963	78.4	78.2	87.1	852	817	778	1 110	843	580	412	281	141	800	1963
1964	183	218	212	818	788	908	1 450	888	477	538	388	188	848	1964
1965	208	207	228	858	1 380	1 870	2 300	1 840	883	884	878	318	932	1965
1966	341	228	354	858	1 180	1 230	1 800	1 140	848	338	214	138	873	1966
1967	230	388	404	304	1 010	1 100	1 040	888	448	334	214	183	827	1967
1968	428	213	274	840	813	488	844	847	488	388	380	288	418	1968
1969	413	473	428	932	1 100	888	1 280	884	884	832	327	281	888	1969
1970	424	522	380	441	1 170	778	1 180	800	801	408	410	333	821	1970
1971	483	577	834	808	1 180	888	880	817	438	370	428	337	848	1971
1972	488	403	488	873	1 880	1 080	1 330	1 080	883	838	382	283	730	1972
1973	472	528	811	848	1 000	1 180	878	882	888	488	308	388	832	1973
1974	484	837	800	988	2 330	1 880	1 380	848	837	712	848	438	970	1974
1975	487	827	808	821	1 240	1 180	1 080	888	480	488	443	238	872	1975
1976	413	841	877	788	813	388	483	428	483	473	284	282	478	1976
1977	488	820	348	834	477	884	402	388	438	388	280	288	417	1977
1978	308	338	341	488	1 080	812	788	843	877	878	388	332	858	1978
1979	481	813	884	843	1 870	1 120	838	388	344	313	288	248	874	1979
1980	284	487	800	711	887	890	788	438	372	487	388	222	488	1980
1981	401	484	418	781	888	872	742	1 080	891	812	424	248	887	1981
1982	378	481	433	888	888	818	889	845	384	412	327	288	801	1982
1983	417	488	484	835	1 010	871	771	488	387	438	418	278	833	1983
1984	322	378	382	838	887	888	821	341	387	381	288	288	881	1984
MEAN	218	229	238	838	1 110	1 180	1 320	1 010	714	827	388	218	888	MEAN

LOCATION - LAT 53 50 30 N DRAINAGE AREA, 347 000 km²
LONG 101 11 10 W REGULATED

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	1 810 ON JUL 28	158 E ON JAN 1	27 300 000	1913
1914	---	1 890 ON JUL 15	127 E ON MAR 1	22 500 000	1914
1915	---	2 630 ON AUG 9	127 B ON JAN 1	30 600 000	1915
1916	---	2 920 ON JUL 19	115 B ON FEB 16	37 100 000	1916
1917	---	2 570 ON JUL 2	132 B ON DEC 31	30 400 000	1917
1918	---	1 520 ON JUL 10	117 B ON JAN 24	20 500 000	1918
1919	---	1 000 ON APR 23	88.4B ON DEC 30	14 400 000	1919
1920	---	2 310 ON JUN 3	78.0B ON FEB 13	23 800 000	1920
1921	---	1 840 ON MAY 6	88.0B ON FEB 3	23 000 000	1921
1922	---	1 500 ON JUN 30	128 B ON FEB 28	21 800 000	1922
1923	---	2 370 ON JUL 16	109 B ON MAR 20	24 700 000	1923
1924	---	1 440 ON MAY 9	81.0B ON JAN 22	18 800 000	1924
1925	---	1 880 ON JUL 15	108 B ON JAN 31	23 900 000	1925
1926	---	1 480 ON APR 27	181 B ON FEB 7	20 800 000	1926
1927	---	2 180 ON JUL 13	149 B ON FEB 28	33 800 000	1927
1928	---	2 320 ON JUL 18	80.7B ON DEC 31	28 500 000	1928
1929	---	1 570 ON JUN 27	88.3B ON DEC 31	13 400 000	1929
1930	---	1 240 ON JUL 11	80.7B ON FEB 3 *	16 200 000	1930
1931	---	1 210 ON APR 21	---	---	1931
1932	---	---	---	---	1932
1933	---	1 740 ON MAY 3	136 B ON MAR 23	21 200 000	1933
1934	---	1 830B ON APR 30	187 B ON JAN 12	23 000 000	1934
1935	---	1 580 ON APR 28	112 B ON JAN 29	18 800 000	1935
1936	---	2 220 ON MAY 2	88.0B ON DEC 31	15 800 000	1936
1937	---	1 400B ON APR 28	---	---	1937
1938	---	---	---	---	1938
1939	---	1 820 ON APR 25	---	---	1939
1940	---	---	---	---	1940
1941	---	1 350 ON APR 20	82.0B ON DEC 21	9 870 000	1941
1942	---	1 770 ON JUL 28	84.7B ON JAN 11	15 800 000	1942
1943	---	2 280 ON APR 23	84.9B ON DEC 15	20 400 000	1943
1944	---	1 570 ON JUL 9	88.0B ON MAR 20	17 000 000	1944
1945	---	1 480 ON JUL 12	83.6B ON JAN 11	17 900 000	1945
1946	---	1 480 ON JUL 9	104 B ON DEC 18	17 900 000	1946
1947	---	1 740 ON MAY 5	137 B ON MAR 7	22 000 000	1947
1948	---	3 000 ON JUN 11 *	83.4B ON DEC 29	30 200 000	1948
1949	---	1 220 ON APR 20	70.2B ON JAN 29	12 800 000	1949
1950	---	1 770B ON MAY 6	86.4B ON JAN 15	15 800 000	1950
1951	---	1 650 ON JUL 30	144 B ON FEB 26	28 700 000	1951
1952	---	2 100B ON APR 21	133 B ON DEC 2	27 500 000	1952
1953	---	2 310 ON JUL 4	120 B ON JAN 31	24 700 000	1953
1954	---	2 200 ON JUL 2	118 B ON FEB 12	35 100 000	1954
1955	---	1 940 ON JUN 9	94.0B ON NOV 20	26 300 000	1955
1956	---	2 320 ON MAY 17	127 B ON DEC 22	33 700 000	1956
1957	---	1 840B ON MAY 1	82.9B ON FEB 8	17 800 000	1957
1958	---	1 570 ON APR 28	108 B ON DEC 11	18 200 000	1958
1959	---	1 870B ON APR 22	134 B ON FEB 2	18 200 000	1959
1960	---	1 870B ON APR 29	142 B ON DEC 28	17 000 000	1960
1961	---	1 370 ON JUN 22	81.8B ON DEC 6	13 000 000	1961
1962	---	1 580B ON APR 30	82.8 ON NOV 8	13 800 000	1962
1963	1 410 AT 13:00 CST ON JUL 21	1 400 ON JUL 19	74.6B ON JAN 27	15 800 000	1963
1964	---	1 870 ON JUL 3	124 B ON JAN 3	17 200 000	1964
1965	2 430 AT 08:15 CST ON JUL 23 *	2 370 ON JUL 23	198 B ON JAN 22	28 400 000	1965
1966	1 830 AT 23:15 CST ON JUL 20	1 760 ON JUL 20	109 B ON DEC 30	21 200 000	1966
1967	---	1 830B ON MAY 13	102 B ON DEC 15	15 800 000	1967
1968	---	800B ON APR 29	130 B ON NOV 28	13 200 000	1968
1969	1 640 AT 17:30 CST ON JUL 23	1 630 ON JUL 23	210 B ON JAN 1	21 000 000	1969
1970	---	1 730B ON MAY 9	228 B ON NOV 28	15 800 000	1970
1971	---	1 580B ON APR 28	300 B ON OCT 10	20 400 000	1971
1972	---	2 010 ON MAY 2	198 B ON DEC 3	23 100 000	1972
1973	---	1 340 ON JUN 20	205 B ON NOV 15	15 800 000	1973
1974	---	2 410 ON MAY 2	391 B ON DEC 19	30 800 000	1974
1975	---	1 330B ON MAY 6	251 B ON NOV 27	21 200 000	1975
1976	---	881B ON APR 15	220 B ON NOV 26	15 100 000	1976
1977	---	823B ON APR 22	184 B ON NOV 24	13 100 000	1977
1978	---	1 540 ON MAY 2	211 B ON JAN 5	17 800 000	1978
1979	2 080 AT 18:00 CST ON MAY 6	2 000 ON MAY 6	198 B ON DEC 13	16 100 000	1979
1980	1 210 AT 00:01 CST ON APR 22	1 140 ON APR 28	161 B ON DEC 4	15 700 000	1980
1981	1 230 AT 23:45 CST ON AUG 12	1 230 ON AUG 12	190 B ON DEC 21	15 600 000	1981
1982	1 510B AT 10:17 CST ON APR 29	1 470B ON APR 29	204 B ON NOV 24	15 800 000	1982
1983	1 570 AT 17:35 CST ON MAY 2	1 550E ON MAY 2	246 B ON DEC 15	15 800 000	1983
1984	1 170B AT 08:12 CST ON APR 17	1 180B ON APR 17	248 B ON NOV 21	14 300 000	1984
				20 800 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SCISSOR CREEK NEAR MCAULEY - STATION NO. 05ME005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0.002	0.018	0.004	0.001	---	---	---	---	---	---	0.006	1977
1978	---	---	0.026	0.226	0.008	0.004	---	---	---	---	---	---	0.088	1978
1979	---	---	0	2.03	0.308	0.021	---	---	---	---	---	---	0.553	1979
1980	---	---	0	0.103	0.001	0	---	---	---	---	---	---	0.026	1980
1981	---	0.017	0.037	0.002	0.001	0.002	---	---	---	---	---	---	0.011	1981
1982	---	---	0	0.730	0	0	---	---	---	---	---	---	0.180	1982
1983	---	---	0	1.26	0.001	0	---	---	---	---	---	---	0.311	1983
1984	---	---	0.002	0	0	0	---	---	---	---	---	---	0	1984
MEAN	---	0.017	0.008	0.547	0.040	0.004	---	---	---	---	---	---	0.148	MEAN

LOCATION - LAT 50 18 16 N
LONG 101 23 04 W

DRAINAGE AREA, 182 km²
NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.083 AND 0 m³/s OCCURRED IN FEBRUARY

SCISSOR CREEK NEAR MCAULEY - STATION NO. 05ME005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1977	0.138 AT 18:20 CST ON APR 8	0.078 ON APR 8	0B ON MAR 1 *	87.6	1977
1978	---	0.5788 ON APR 3	0B ON MAR 1	892	1978
1979	13.8 AT 18:00 CST ON APR 24 *	12.7 A ON APR 23 *	0B ON MAR 1	8 140	1979
1980	---	0.3788 ON APR 8	0B ON MAR 1	271	1980
1981	0.183 AT 17:32 CST ON APR 30	0.0838 ON MAR 19	0 ON APR 7	114	1981
1982	5.85 AT 00:06 CST ON APR 14	5.10 ON APR 14	0B ON MAR 1	1 890	1982
1983	10.5 AT 22:11 CST ON APR 20	9.04 ON APR 21	0B ON MAR 1	3 270	1983
1984	0.032 AT 18:54 CST ON MAR 28	0.012 ON MAR 28	0B ON MAR 1	4.41	1984
				1 580	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SCLATER RIVER NEAR CAMPERVILLE - STATION NO. 05LG005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0.005	8.97	1.58	1.13	0.505	0.287	0.285	2.07	---	---	1.59	1969
1970	---	---	0.037	7.82	8.12	1.85	3.41	2.02	0.071	1.48	---	---	3.08	1970
1971	---	---	0.025	10.5	1.25	2.17	1.48	0.268	0.008	0.540	---	---	2.01	1971
1972	---	---	0.019	9.22	4.44	0.283	0.132	0.031	0.001	0.002	---	---	1.75	1972
1973	---	---	0.018	0.319	0.445	8.85	0.619	0.123	1.05	0.922	---	---	1.58	1973
1974	---	---	0.018	14.4	13.8	2.85	0.033	0.004	0.185	0.195	---	---	3.89	1974
1975	---	---	0	4.08	4.72	2.81	0.126	0.001	0.857	1.15	---	---	1.70	1975
1976	---	---	0	10.7	1.70	13.2	0.842	0.022	0.001	0	---	---	3.23	1976
1977	---	---	0	0.352	0.388	0.028	0.133	0.231	1.81	1.01	---	---	0.488	1977
MEAN	---	---	0.016	7.18	4.02	3.70	0.808	0.333	0.448	0.818	---	---	2.15	MEAN

LOCATION - LAT 51 58 50 N
LONG 100 13 50 W

DRAINAGE AREA, 384 km²
NATURAL FLOW

SCLATER RIVER NEAR CAMPERVILLE - STATION NO. 05LG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1969	---	35.7 ON APR 14	0 ON SEP 5 *	33 700	1969
1970	---	22.3 ON APR 30	0.028 ON SEP 14	65 500	1970
1971	---	34.8 ON APR 13	0 ON SEP 3	42 500	1971
1972	---	37.7 ON APR 21	0 B ON MAR 1	37 000	1972
1973	46.4 AT 08:00 CST ON JUN 22	44.2 ON JUN 22	0 B ON MAR 1	33 000	1973
1974	96.0 AT 04:30 CST ON APR 21 *	85.0 ON APR 21 *	0.001 ON AUG 7	82 300	1974
1975	18.6 AT 11:14 CST ON APR 28	14.6 ON APR 28	0 B ON MAR 1	36 000	1975
1976	75.0 AT 21:00 CST ON JUN 15	65.7 ON JUN 15	0 B ON MAR 1	65 400	1976
1977	8.71 AT 11:17 CST ON SEP 28	6.40 ON SEP 28	0 B ON MAR 1	10 300	1977
				45 400	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SCOTT CREEK NEAR LAURIER - STATION NO. 05LJ026

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.013	0.858	1.07	0.203	0.115	0.069	0.050	0.557	---	---	0.488	1959
1960	---	---	0	1.48	1.73	0.330	0.127	0.138	0.075	0.111	---	---	0.681	1960
1961	---	---	0.058	0.255	0.408	0.105	0.084	0.001	0.082	0.118	---	---	0.207	1961
1962	---	---	0.001	0.293	0.487	0.158	0.044	0.050	0.041	0.048	0.105	---	0.237	1962
1963	---	---	0.028	1.48	0.894	0.918	0.124	0.071	0.189	0.108	---	---	0.775	1963
1964	---	---	0	0.894	0.598	0.105	0.078	0.055	0.084	0.088	---	---	0.348	1964
1965	---	---	0.012	1.03	1.28	0.578	0.212	0.113	0.078	0.238	---	---	0.728	1965
1966	---	---	0.263	0.832	1.38	0.349	0.144	0.238	0.089	0.148	---	---	0.738	1966
1967	---	---	0.028	0.312	1.89	0.270	0.108	0.085	0.051	0.144	---	---	0.658	1967
1968	---	---	0.025	0.405	0.541	0.274	0.347	0.328	0.248	0.191	---	---	0.311	1968
1969	---	---	0.057	1.08	0.488	1.31	0.798	0.121	0.194	0.211	---	---	0.727	1969
1970	---	---	0.184	1.31	3.15	0.887	0.325	0.116	0.178	0.208	---	---	1.34	1970
1971	---	---	0	0.887	0.471	2.18	0.408	0.180	0.143	0.488	---	---	0.882	1971
1972	---	---	0.058	1.09	1.14	0.257	0.117	0.091	0.088	0.087	---	---	0.538	1972
1973	---	---	0.048	0.212	0.321	0.812	0.110	0.187	0.348	0.371	---	---	0.287	1973
1974	---	---	0	1.48	2.17	0.887	0.212	0.127	0.144	0.136	---	---	1.08	1974
1975	---	---	0	0.743	1.24	1.00	0.201	0.878	2.74	0.909	---	---	0.744	1975
1976	---	---	0.011	2.90	0.542	0.477	0.178	0.091	0.078	0.078	---	---	0.872	1976
1977	---	---	0.010	0.278	0.435	0.258	---	---	---	---	---	---	0.244	1977
1978	---	---	0.028	1.04	0.489	0.280	---	---	---	---	---	---	0.480	1978
MEAN	---	---	0.042	0.925	1.03	0.552	0.208	0.180	0.318	0.233	0.105	---	0.638	MEAN

LOCATION - LAT 50 50 50 N DRAINAGE AREA, 89.4 km²
LONG 99 32 45 W NATURAL FLOW

REMARKS - 58.8 m³/s OCCURRED SEP 19 1975. AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

SCOTT CREEK NEAR LAURIER - STATION NO. 05LJ026

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	7.36 AT 00:30 CST ON MAY 3	4.36 ON MAY 8	0 B ON MAR 1 *	5 150	1959
1960	7.48 AT 17:00 CST ON MAY 28	4.84 ON APR 20	0 B ON MAR 1	9 280	1960
1961	---	1.48 ON MAY 7	0.0088 ON MAR 27	2 180	1961
1962	---	4.47A ON MAY 30	0 B ON MAR 1	2 500	1962
1963	10.4 B AT 05:15 CST ON APR 18	5.62 ON JUN 10	0 B ON MAR 1	8 180	1963
1964	10.4 B AT 22:35 CST ON APR 24	3.118 ON APR 24	0 B ON MAR 1	3 870	1964
1965	---	12.0 B ON APR 28	0.0088 ON MAR 1	7 840	1965
1966	10.5 AT 21:00 CST ON MAY 4	4.70 ON MAY 5	0.0148 ON MAR 1	7 790	1966
1967	5.07 AT 00:30 CST ON MAY 15	3.57 ON MAY 15	0.0288 ON MAR 1	6 910	1967
1968	---	1.27 ON MAY 8	0 B ON MAR 1	3 280	1968
1969	22.2 AT 03:52 CST ON JUN 27	11.0 ON JUN 27	0.0578 ON MAR 1	7 550	1969
1970	---	11.3 ON MAY 7	0.1848 ON MAR 1	14 100	1970
1971	28.3 AT 14:18 CST ON JUN 8 *	21.6 ON JUN 8 *	0 B ON MAR 1	8 080	1971
1972	8.678 AT 00:00 CST ON APR 28	5.588 ON APR 25	0 B ON MAR 1	6 700	1972
1973	6.28 AT 18:05 CST ON JUN 20	3.96 ON JUN 20	0.0288 ON MAR 1	3 130	1973
1974	12.0 AT 23:55 CST ON MAY 11	8.57 ON APR 27	0 B ON MAR 1	11 300	1974
1975	11.6 AT 05:47 CST ON MAY 8	7.89 ON JUN 10	0 B ON MAR 1	7 850	1975
1976	11.3 AT 17:30 CST ON APR 19	7.14 ON APR 8	0 B ON MAR 1	10 300	1976
1977	---	1.42 ON MAY 20	0 B ON MAR 1	2 880	1977
1978	---	3.348 ON APR 24	0.0208 ON MAR 1	4 850	1978
				6 710	MEAN

A - MANUAL GAUGE B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)

SEAL RIVER BELOW GREAT ISLAND - STATION NO. 06ED001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1955	142	113	79.3	85.0	425	783	708	510	340	232	178	142	313	1955
1956	113	102	86.3	142	481	783	552	331	216	147	113	85.0	285	1956
1957	85.1	82.3	59.5	142	467	783	607	726	595	425	275	184	385	1957
1958	142	127	113	106	204	488	473	425	419	368	289	204	262	1958
1959	180	123	86.3	99.1	580	820	783	467	411	326	255	198	371	1959
1960	170	113	85.0	198	934	1 610	1 270	714	382	287	241	190	518	1960
1961	156	122	87.8	113	416	481	814	487	382	303	236	184	300	1961
1962	142	122	102	130	851	1 300	778	402	283	227	170	142	372	1962
1963	113	99.1	87.8	93.4	269	711	748	588	378	246	176	130	303	1963
1964	110	99.1	93.4	85.0	99.1	483	780	736	609	426	241	161	324	1964
1965	180	113	79.3	78.5	227	482	416	348	283	203	177	153	223	1965
1966	137	120	86.6	91.1	125	1 120	921	557	331	248	182	139	338	1966
1967	126	108	93.3	103	184	1 200	1 080	773	384	286	198	153	388	1967
1968	122	108	93.7	90.8	183	957	816	574	532	484	348	261	385	1968
1969	183	152	122	122	198	418	378	382	647	784	443	348	364	1969
1970	248	187	144	142	388	880	418	284	257	278	283	219	284	1970
1971	180	148	120	113	283	490	713	728	602	788	577	381	447	1971
1972	238	173	134	114	721	887	768	776	760	584	386	288	485	1972
1973	200	152	127	109	583	423	332	233	210	181	148	118	234	1973
1974	84.6	76.1	86.7	84.4	385 R	414R	351	478	520	373	261	200	273R	1974
1975	154	102	79.2	90.8	459	574	712	585	420	306	225	171	325	1975
1976	139	120	108	113	381	820	588	337	338	464	394	308	326	1976
1977	235	177	127	220	808	781	734	768	580	432	320	227	452	1977
1978	156	116	88.5	79.8	310	605	728	788	592	604	524	328	476	1978
1979	207	150	112	86.6	277	772	528	368	287	221	161	148	277	1979
1980	122	86.6	76.2	108	---	---	438	535	1 050	628	528	318	---	1980
1981	185	138	111	104	583	884	528	385	328	282	207	163	308	1981
1982	116	86.3	81.8	78.1	410	833	615	384	338	388	321	177	294	1982
1983	150	128	110	84.8	148	1 400	1 280	805	831	585	447	352	535	1983
1984	263	168	143	298	1 080	748	505	381	330	283	214	180	384	1984
MEAN	157	125	100	117	418 R	782R	678	529	484	404	287	208	354	MEAN

LOCATION - LAT 56 53 30 N
LONG 98 18 31 W

DRAINAGE AREA, 48 200 km²
NATURAL FLOW

R - REVISED SINCE JAN 1980

SEAL RIVER BELOW GREAT ISLAND - STATION NO. 06ED001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1955	---	783E ON JUN 1	79.3E ON MAR 1	9 880 000	1955
1956	---	783E ON JUN 1	85.0E ON DEC 1	8 380 000	1956
1957	---	607E ON JUL 1	59.5E ON MAR 1 *	12 200 000	1957
1958	---	488E ON JUN 1	106 E ON APR 1	8 280 000	1958
1959	---	820E ON JUN 1	86.3E ON MAR 1	11 700 000	1959
1960	---	1 610E ON JUN 1	85.0E ON MAR 1	16 400 000	1960
1961	---	614E ON JUL 1	87.8E ON MAR 1	9 450 000	1961
1962	---	1 300E ON JUN 1	102 E ON MAR 1	11 700 000	1962
1963	---	748E ON JUL 1	87.8E ON MAR 1	9 550 000	1963
1964	---	780E ON JUL 1	85.0E ON APR 1	10 300 000	1964
1965	---	482E ON JUN 1	78.5E ON APR 1	7 030 000	1965
1966	---	1 310B ON JUN 10	87.4B ON MAR 31	10 700 000	1966
1967	---	1 350E ON JUN 7	86.7B ON MAR 31	12 200 000	1967
1968	---	957E ON JUN 1	90.6E ON APR 1	12 200 000	1968
1969	---	934 ON SEP 21	122 E ON MAR 1	11 500 000	1969
1970	---	880E ON JUN 1	142 E ON APR 1	8 950 000	1970
1971	896 AT 22:51 CST ON SEP 30	692 ON SEP 30	108 B ON MAR 31	14 100 000	1971
1972	---	1 040 ON MAY 27	109 B ON APR 11	14 700 000	1972
1973	1 000 AT 23:00 CST ON MAY 23	817 ON MAY 24	103 B ON APR 11	7 400 000	1973
1974	---	738RB ON MAY 25	83.4B ON APR 7	8 610 000R	1974
1975	778 AT 19:00 CST ON JUL 8	785 ON JUL 8	74.5B ON MAR 29	10 300 000	1975
1976	714 AT 16:00 CST ON JUN 20	711 ON JUN 20	108 B ON MAR 21	10 300 000	1976
1977	---	8170 ON MAY 13	115 B ON MAR 29	14 300 000	1977
1978	---	1 040 ON SEP 7	79.3B ON APR 7	15 000 000	1978
1979	---	880B ON JUN 3	84.8B ON APR 10	8 720 000	1979
1980	---	1 180 ON SEP 10	84.3B ON APR 8	---	1980
1981	---	1 010B ON MAY 25	104 B ON APR 1	9 850 000	1981
1982	---	755 ON JUN 25	74.1B ON APR 27	8 270 000	1982
1983	1 650 AT 13:15 CST ON JUN 26 *	1 640 ON JUN 26 *	80.2B ON APR 26	16 500 000	1983
1984	---	1 480B ON MAY 23	127 B ON APR 4	12 100 000	1984
				11 300 000R	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

SEINE RIVER AT RAILWAY BRIDGE, NEAR STE. ANNE DES CHENES - STATION NO. 05OH001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	5.81	2.84	1.74	0.813	0.848	1.84	1.13	0.383	---	1915
1916	---	---	---	9.88	5.18	2.18	1.57	0.842	0.278	0.888	---	---	2.93	1916
1917	---	---	---	4.18	3.10	0.805	0.418	0.058	0.041	0.142	---	---	1.24	1917
1918	---	---	---	1.08	0.728	2.53	0.882	0.471	0.208	0.848	0.488	---	0.883	1918
1919	---	---	---	3.55	1.98	0.778	12.3	0.448	2.31	---	---	---	---	1919
1920	---	---	---	---	4.57	5.07	0.121	0	---	---	---	---	---	1920
1921	---	---	---	4.13	3.82	2.18	---	---	---	---	---	---	---	1921
1922	---	---	---	6.70	5.88	0.412	---	---	---	---	---	---	---	1922
1923	---	---	---	---	3.41	1.36	0.881	0.878	---	---	---	---	---	1923
1924	---	---	---	---	5.84	1.74	0.718	1.17	0.202	1.88	---	---	---	1924
1925	---	---	---	10.2	4.18	18.2	3.08	0.407	0.909	5.34	---	---	5.13	1925
1926	---	---	---	3.13	1.47	5.48	2.70	0.530	0.548	5.41	---	---	2.78	1926
1927	---	---	---	14.8	20.7	3.03	0.978	0.307	0.584	---	---	---	---	1927
MEAN	---	---	---	5.15	5.37	3.72	2.28	0.476	0.587	2.28	0.808	0.383	2.78	MEAN

LOCATION - LAT 49 40 00 N, LONG 96 39 00 W. DRAINAGE AREA, 712 km². NATURAL FLOW

SEINE RIVER AT RAILWAY BRIDGE, NEAR STE. ANNE DES CHENES - STATION NO. 05OH001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1915	---	---			
1916	---	22.4 ON APR 22	0 ON AUG 4 *	---	1915
1917	---	13.5 ON APR 19	0 ON AUG 28	54 200	1916
1918	---	5.44 ON JUN 5	0 ON JUL 31	23 000	1917
1919	---	58.1 ON JUL 5 *	0.113 ON AUG 7	18 300	1918
			0 ON SEP 2	---	1919
1920	---	---			
1921	---	7.90 ON APR 19	0 ON JUL 12	---	1920
1922	---	---	0.311 ON JUN 29	---	1921
1923	---	---	0 ON JUN 13	---	1922
1924	---	---	---	---	1923
		---	---	---	1924
1925	---	---			
1926	---	44.5 ON JUN 10	0.113 ON AUG 5	113 000	1925
1927	---	17.5 ON JUN 25	0.388 ON AUG 15	50 800	1926
		58.1 ON MAY 11	---	---	1927

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

51 500 MEAN

SEINE RIVER AT STE. ANNE DES CHENES - STATION NO. 05OH003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1926	---	---	---	---	---	---	---	---	---	5.41	---	---	---	1926
1927	---	---	---	---	30.7	3.03	0.978	0.307	0.584	1.58	---	---	4.85	1927
1928	---	---	---	---	1.83	7.18	7.05	1.28	0.859	0.878	---	---	3.17	1928
1929	---	---	---	---	1.38	2.78	0.535	0.112	0.208	0.574	---	---	0.828	1929
1930	---	---	---	---	8.58	0.884	0.744	0.188	0.224	0.583	---	---	1.58	1930
1931	---	---	---	3.78	2.88	0.872	0.208	0.095	0.221	0.418	0.587	---	0.717	1931
1932	---	---	---	---	1.82	0.308	0.331	0.078	0.188	0.834	---	---	0.578	1932
1933	---	---	---	---	2.83	1.80	0.172	0.087	0.143	0.213	---	---	0.888	1933
1934	---	---	---	---	0.820	0.884	0.261	0.070	0.138	0.387	---	---	0.385	1934
1935	---	---	---	---	1.73	1.14	0.808	0.204	0.227	0.314	---	---	0.703	1935
1936	---	---	---	---	1.38	0.372	0.084	0.018	0.180	---	---	---	---	1936
MEAN	---	---	---	3.78	4.18	1.89	1.08	0.241	0.281	1.10	0.587	---	1.50	MEAN

LOCATION - LAT 49 40 35 N, LONG 96 41 00 W. DRAINAGE AREA, 717 km². NATURAL FLOW

SEINE RIVER AT STE. ANNE DES CHENES - STATION NO. 05OH003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1926	---	---	---	---	1926
1927	---	58.1 ON MAY 11 *	0.215 ON AUG 15	72 400	1927
1928	---	16.7 ON JUN 23	0.738 ON AUG 20	50 400	1928
1929	---	7.28 ON MAY 31	0.028 ON AUG 10	14 700	1929
1930	---	17.3 ON MAY 15	0.088 ON AUG 15	24 800	1930
1931	---	6.38 ON MAY 13	0.054 ON AUG 19	11 400	1931
1932	---	2.87 ON MAY 4	0.014 ON AUG 20	9 150	1932
1933	---	10.8 ON MAY 29	0.008 ON SEP 8	14 100	1933
1934	---	1.17 ON MAY 1	0.003 ON AUG 4 *	5 820	1934
1935	---	3.94 ON MAY 14	0.078 ON AUG 15	11 300	1935
1936	---	2.18 ON MAY 2	0.003 ON AUG 2	---	1936

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

33 800 MEAN

SEINE RIVER DIVERSION NEAR ILE DES CHENES - STATION NO. 05OE011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	1.37	50.4	8.87	0.044	0.028	0.008	0.011	0.042	---	---	7.28	1967
1968	---	---	0.218	3.09	4.12	1.52	1.01	2.33	1.31	0.218	---	---	1.70	1968
1969	---	---	0	21.4	5.13	0.881	0.887	0.190	0.038	0.090	---	---	3.49	1969
1970	---	---	0	23.6	10.6	7.00	0.371	0.038	0.230	0.090	---	---	5.20	1970
1971	---	---	0	14.6	2.87	0.452	0.180	0.048	0.118	0.733	---	---	2.32	1971
1972	---	---	1.69	13.3	1.88	0.977	0.031	0.078	0.037	0.188	---	---	2.12	1972
1980	---	---	0.004	8.12	0.088	0.048	0.028	0.014	0.284	0.427	---	---	0.888	1980
1981	---	---	0.873	0.321	0.281	0.383	0.881	0.408	0.278	0.024	---	---	0.408	1981
1982	---	---	0.893	10.0	0.441	3.88	3.01	0.883	0.188	0.833	---	---	3.38	1982
1983	---	---	7.83	18.3	2.38	1.38	1.37	0.081	0.071	0.128	---	---	3.47	1983
1984	---	---	0.888	0.882	0.288	8.03	0.383	0.084	0.074	0.243	---	---	1.12	1984
MEAN	---	---	1.18	14.4	3.88	1.88	0.883	0.344	0.237	0.288	---	---	2.88	MEAN

LOCATION - LAT 48 41 40 N
LONG 88 88 18 W REGULATED

SEINE RIVER DIVERSION NEAR ILE DES CHENES - STATION NO. 05OE011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	132 ON APR 21 *	0 B ON MAR 1 *	154 000	1967
1968	---	18.1 ON MAY 15	0 B ON MAR 1	36 000	1968
1969	---	76.5 ON APR 10	0 B ON MAR 1	73 700	1969
1970	---	72.8 ON APR 18	0 B ON MAR 1	131 000	1970
1971	---	85.2 B ON APR 8	0 B ON MAR 1	49 000	1971
1972	---	32.0 B ON APR 17	0 B ON MAR 1	44 800	1972
1980	43.5 B AT 12:00 CST ON APR 7 *	42.8 B ON APR 7	0 B ON MAR 1	18 200	1980
1981	7.53 AT 16:31 CST ON JUN 28	5.61 ON JUN 30	0.008 ON JUL 28	8 850	1981
1982	33.6 AT 22:31 CST ON APR 13	28.8 B ON APR 13	0 B ON MAR 1	80 300	1982
1983	---	38.7 B ON APR 4	0 B ON MAR 1	73 600	1983
1984	20.6 AT 11:54 CST ON JUN 13	19.3 ON JUN 13	0 B ON MAR 1	23 600	1984
				80 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER DIVERSION NEAR ST. ADOLPHE - STATION NO. 05OE013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	3.89	0.943	0.397	0.804	0.189	0.353	1.37	3.13	---	---	1.38	1973
1974	---	---	---	88.3	48.8	4.17	---	---	---	---	---	---	---	1974
1975	---	---	0	3.34	1.81	3.02	4.34	0.027	0.024	0.088	---	---	1.40	1975
1976	---	---	0.001	8.04	0.832	3.76	0.248	0.032	0.036	0.001	---	---	1.80	1976
1977	---	---	0.105	1.08	0.188	0.089	0.178	0.038	0.872	0.244	---	---	0.323	1977
1978	---	---	0.228	28.3	1.71	0.057	0.358	0.004	0.007	0.007	---	---	3.75	1978
1979	---	---	0	22.2 R	1.82	3.93	0.032	0.020	0.047	0.084	---	---	3.32 R	1979
MEAN	---	---	0.731	17.2 R	7.87	1.98	0.881	0.051	0.343	0.417	---	---	1.86	MEAN

LOCATION - LAT 48 41 50 N
LONG 97 05 30 W REGULATED

R - REVISED SINCE JAN 1980

SEINE RIVER DIVERSION NEAR ST. ADOLPHE - STATION NO. 05OE013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	18.3 B ON MAR 14	0B ON MAR 1 *	28 700	1973
1974	---	176 E ON APR 22 *	0B ON APR 1	---	1974
1975	40.2 AT 08:45 CST ON JUL 1	37.7 ON JUL 1	0B ON MAR 1	39 600	1975
1976	---	37.1 ON JUN 13	0B ON MAR 1	33 900	1976
1977	5.78 AT 09:30 CST ON APR 10	4.19 ON APR 10	0B ON MAR 1	8 820	1977
1978	82.3 B AT 23:30 CST ON APR 10 *	64.4 B ON APR 10	0B ON MAR 1	78 400	1978
1979	---	118 R ON APR 20	0B ON MAR 1	70 400R	1979
				41 200R	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED R - REVISED SINCE JAN 1980

SEINE RIVER DIVERSION NEAR STE. ANNE - STATION NO. 05OH008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	1.27	0.884	0.458	0.456	0.072	0.098	0.218	1.15	---	---	0.579	1973
1974	---	---	0	20.6	16.4	3.06	0.003	0.003	0.003	0.003	---	---	4.97	1974
1975	---	---	0	1.03	2.23	1.46	2.23	0	0	0	---	---	0.887	1975
1976	---	---	0	2.99	0.858	0.505	0.115	0	0	0	---	---	0.530	1976
1977	---	---	0.005	0.087	0.001	0	0	0	0	0	---	---	0.013	1977
1978	---	---	0.004	8.88	1.81	0.089	0.017	0.001	0.002	0	---	---	1.30	1978
1979	---	---	0	7.70 R	7.29	2.50	0	0	0	0	---	---	2.17 R	1979
1980	---	---	0	1.81	0	0	0	0	0	0	---	---	0.321	1980
1981	---	---	0.004	0.002	0	0	0	0	0	0	---	---	0.001	1981
1982	---	---	0.095	4.80	0.115	2.25	1.71	0.188	0	0.188	---	---	1.18	1982
1983	---	---	0.679	8.05	1.85	0.875	1.05	0	0	0	---	---	1.55	1983
1984	---	---	0.203	0.280	0.023	5.32	0.150	0	0	0	---	---	0.731	1984
MEAN	---	---	0.188	4.76 R	2.55	1.36	0.448	0.022	0.018	0.110	---	---	1.17	MEAN

LOCATION - LAT 49 39 10 N
LONG 96 39 10 W REGULATED

R - REVISED SINCE JAN 1980

SEINE RIVER DIVERSION NEAR STE. ANNE - STATION NO. 05OH008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	---	---	---	
1974	---	3.88 ON OCT 15	0.0 ON MAR 1 *	12 200	1973
		61.7 A ON APR 22 *	0.0 ON MAR 1	105 000	1974
1975	17.0 AT 03:05 CST ON JUL 2	17.3 ON JUL 2	---	---	
1976	4.87 AT 12:52 CST ON APR 23	4.58 ON APR 22	0.0 ON MAR 1	16 300	1975
1977	0.426 AT 21:00 CST ON APR 12	0.252 ON APR 12	0.0 ON MAR 1	11 200	1976
1978	---	22.1 B ON APR 10	0.0 ON MAR 1	287	1977
1979	---	34.0 R ON APR 19	0.0 ON MAR 1	27 500	1978
			0.0 ON MAR 1	48 000 R	1979
1980	8.88 B AT 18:00 CST ON APR 7	8.84 B ON APR 7	0.0 ON MAR 1	4 880	1980
1981	0.030 AT 05:38 CST ON MAR 28	0.025 ON MAR 28	0 ON MAR 1	18.8	1981
1982	18.2 AT 23:38 CST ON APR 18 *	18.7 B ON APR 18	0.0 ON MAR 1	24 300	1982
1983	---	28.1 B ON APR 2	0.0 ON MAR 1	32 800	1983
1984	18.8 AT 15:59 CST ON JUN 12	18.8 ON JUN 13	0.0 ON MAR 1	15 500	1984
				24 800 R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

SEINE RIVER NEAR PRAIRIE GROVE - STATION NO. 05OH009

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1942	---	---	---	---	8.73	1.02	0.229	0.205	0.807	0.363	---	---	---	1942
1943	---	---	---	9.12	3.36	7.18	2.25	0.281	0.285	0.235	---	---	---	1943
1944	---	---	---	2.12	0.910	13.0	2.27	10.7	20.4	1.87	8.88	---	---	1944
1945	---	---	---	15.5	6.86	1.43	2.32	0.400	4.77	2.37	---	---	---	1945
1946	---	---	11.3	7.85	2.01	0.821	0.782	0.101	0.484	1.49	---	---	---	1946
1947	---	---	0	11.8	5.60	4.86	1.60	3.83	0.950	2.64	---	---	---	1947
1948	---	---	0.132	14.0	7.08	0.827	1.71	3.87	0.417	5.238	0.481	0.272	---	1948
1949	0.112	0.084	0.128	8.33	3.95	1.18	0.258	0.290	0.125	1.31	1.89	0.405	1.80	1949
1950	0.252	0.187	0.138	14.2	33.8	4.82	4.29	0.885	3.01	8.08	1.83	0.477	5.75	1950
1951	0.306	0.118	0.427	10.2	6.48	1.19	0.225	0.212	0.428	0.586	0.266	0.208	1.73	1951
1952	0.057	0.080	0.082	1.62	0.828	0.884	0.580	0.128	0.083	0.205	0.187	0.148	0.378	1952
1953	0.088	0.081	0.377	1.84	1.32	3.48	1.28	0.171	0.537	0.322	0.280	0.188	0.672	1953
1954	0.048	0.088	0.118	3.42	8.81	11.8	1.82	0.361	0.784	1.38	0.848	0.488	2.18	1954
1955	0.212	0.118	0.108	20.8	3.88	6.32	0.871	0.088	0.087	0.274	0.181	0.107	3.85	1955
1956	0.033	0.018	0.100	8.88	4.32	1.48	1.74	0.887	3.98	0.774	4.87	0.484	2.27	1956
1957	0.188	0.083	4.11	10.7	4.88	8.02	2.88	0.201	0.180	0.378	0.393	0.131	2.38	1957
1958	0.078	0.041	0.287	0.809	0.882	0.863	2.15	0.187	0.088	0.382	0.440	0.188	0.482	1958
1959	0.103	0.024	0.082	11.8	7.48	18.8	1.38	2.81	4.00	18.0	2.38	0.438	5.47	1959
1960	0.217	0.184	0.088	28.0	4.14	2.03	0.380	0.189	0.118	0.324	0.538	0.328	3.83	1960
1961	0.233	0.032	0.806	3.82	2.42	0.472	0.138	0.012	0.008	0.274	0.217	0.088	0.893	1961
1962	0.085	0.020	0.108	2.84	3.38	0.847	0.878	0.880	0.481	0.388	0.845	0.452	0.828	1962
1963	0.083	0	0.880	4.31	4.00	8.48	2.09	0.788	0.085	0.148	0.148	0.083	1.81	1963
1964	0.107	0.111	0.083	3.44	3.52	2.85	0.781	0.188	0.318	1.79	0.821	0.180	1.14	1964
1965	0.088	0.047	0.088	4.82	3.88	3.58	2.84	0.284	0.738	1.88	0.867	0.837	1.88	1965
1966	0.388	0.284	0.211	10.2	3.48	4.43	8.48	0.438	1.28	0.832	1.08	0.282	2.38	1966
1967	0.128	0.088	0.078	12.8	2.88	0.833	0.340	0.112	0.012	0.288	0.388	0.108	1.48	1967
1968	0.083	0.048	0.188	1.88	1.03	1.07	1.38	2.81	1.84	1.13	0.808	0.238	0.888	1968
1969	0.133	0.287	0.238	8.08	0.928	0.808	1.22	0.881	0.238	0.801	0.418	0.243	1.12	1969
1970	0.188	0.088	0.083	7.78	3.13	2.38	0.888	0.187	0.288	0.488	0.888	0.184	1.38	1970
1971	0.028	0.088	0.282	4.44	0.818	0.788	0.373	0.227	0.128	0.888	0.721	0.284	1.08	1971
1972	0.188	0.084	0.333	4.88	1.11	0.807	0.112	0.218	0.214	0.487	0.828	0.872	0.888	1972
1973	0.852	0.848	1.34	1.28	1.08	1.48	1.84	0.781	1.84	3.87	1.34	0.348	1.87	1973
1974	0.188	0.127	0.183	18.2	8.88	1.88	0.388	0.208	0.178	0.288	0.188	0.188	2.47	1974
1975	0.118	0.142	0.177	1.37	1.88	2.87	1.88	0.128	0.112	0.218	0.173	0.187	0.888	1975
1976	0.088	0.078	0.184	3.88	0.842	2.82	0.388	0.838	0.888	0.883	0.888	0.884	0.484	1976
1977	0	0	0.088	1.33	0.441	0.887	0.483	0.111	1.88	1.18	0.783	0.827	0.888	1977
1978	0.212	0.188	0.181	11.7	2.87	0.718	0.378	0.874	0.184	0.184	0.128	0.888	1.38	1978
1979	0.827	0.818	0.838	18.3	1.88	2.44	0.183	0.118	0.228	0.134	0.188	0.883	1.33	1979
1980	0.088	0.878	0.888	3.78	0.882	0.128	0.838	0.888	0.174	0.288	0.873	0.888	0.484	1980
1981	0.818	0.114	0.837	0.787	0.888	0.818	0.332	0.227	0.283	1.78	0.787	0.487	0.888	1981
1982	0.888	0.838	0.128	2.32	2.38	1.82	1.28	0.872	0.133	1.82	1.84	0.838	1.81	1982
1983	0.888	0.133	0.814	8.34	0.878	0.818	0.888	0.224	0.128	0.228	0.212	0.888	0.734	1983
1984	0.828	0.818	0.181	1.11	0.882	1.27	0.388	0.884	0.888	0.288	0.271	0.188	0.382	1984
MEAN	0.118	0.883	0.833	7.32	3.78	2.82	1.18	0.881	1.18	1.38	0.881	0.348	1.81	MEAN

LOCATION - LAT 49 48 18 N
LONG 98 88 18 W
DRAINAGE AREA, 1 080 km^2
REGULATED SINCE 1981

SEINE RIVER NEAR PRAIRIE GROVE - STATION NO. 05OH005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1942	---	---	---	---	1942
1943	---	33.7 ON APR 9	---	---	1943
1944	---	48.6 ON SEP 7	0 B ON APR 1 *	---	1944
1945	---	50.4 ON MAR 26	---	---	1945
1946	---	38.1 ON MAR 25	0 B ON MAR 1	---	1946
1947	---	26.1 ON APR 17	---	---	1947
1948	---	38.1 ON APR 21	---	---	1948
1949	---	32.0 ON APR 12	0 B ON JAN 27	47 300	1949
1950	---	50.4 ON MAY 7	0.1020 ON MAR 7	181 000	1950
1951	---	23.9 B ON APR 6	0 B ON DEC 30	54 800	1951
1952	---	4.088 ON APR 8	0.0288 ON JAN 1	11 800	1952
1953	---	6.48 ON JUN 28	0.0288 ON FEB 12	27 500	1953
1954	---	25.2 ON JUN 18	0.0288 ON JAN 1	89 200	1954
1955	---	73.3 ON APR 8	0 ON SEP 16	80 500	1955
1956	---	36.6 B ON APR 22	0 B ON JAN 19	71 700	1956
1957	---	33.1 ON APR 26	0.0288 ON JAN 31	75 400	1957
1958	---	9.34 ON JUL 5	0 ON SEP 22	15 500	1958
1959	82.7 R AT 08:00 CST ON JUN 15 *	77.6 ON JUN 15	0.0088 ON FEB 19	173 000	1959
1960	---	84.1 ON APR 15 *	0.033 ON SEP 22	89 500	1960
1961	---	5.038 ON MAR 26	0 B ON FEB 1	21 800	1961
1962	---	17.7 B ON APR 22	0 B ON JAN 17	28 300	1962
1963	---	12.2 B ON APR 9	0 B ON JAN 11	47 600	1963
1964	---	13.6 B ON APR 18	0.0118 ON MAR 24	36 200	1964
1965	---	26.0 B ON APR 14	0.0208 ON MAR 14	49 000	1965
1966	---	23.4 A ON JUL 4	0.1068 ON DEC 30	74 400	1966
1967	38.2 AT 03:30 CST ON APR 22	34.6 ON APR 22	0 B ON MAR 22	48 700	1967
1968	9.48 ON AUG 25	9.29 ON AUG 25	0.0178 ON JAN 6	31 500	1968
1969	---	24.8 ON APR 12	0.0178 ON FEB 11	36 400	1969
1970	---	27.6 B ON APR 18	0.0348 ON FEB 15	42 800	1970
1971	---	26.6 B ON APR 10	0.0148 ON FEB 9	33 300	1971
1972	---	16.3 B ON APR 16	0.0088 ON JAN 26	21 800	1972
1973	---	7.36 ON OCT 14	0.0458 ON FEB 1	33 800	1973
1974	64.0 B AT 09:00 CST ON APR 18	60.9 ON APR 19	0.0678 ON DEC 11	77 800	1974
1975	14.6 AT 15:48 CST ON JUN 23	14.1 ON JUN 23	0.048 ON SEP 26	23 000	1975
1976	---	16.6 B ON APR 6	0 ON SEP 5	15 800	1976
1977	6.51 AT 08:48 CST ON SEP 27	6.48 ON SEP 27	0 B ON JAN 1	18 800	1977
1978	28.9 B AT 04:51 CST ON APR 11	28.8 B ON APR 11	0.023 ON SEP 11	43 800	1978
1979	58.3 B AT 01:40 CST ON APR 20	58.4 B ON APR 20	0.0138 ON MAR 13	40 800	1979
1980	11.8 B AT 04:56 CST ON APR 9	11.4 B ON APR 9	0 ON JUL 16	12 800	1980
1981	2.80 AT 17:00 CST ON OCT 17	2.43 ON OCT 17	0 B ON JAN 17	17 300	1981
1982	10.2 B AT 06:50 CST ON APR 15	9.838 ON APR 15	0.0088 ON FEB 11	31 800	1982
1983	20.4 B AT 04:56 CST ON APR 7	19.6 B ON APR 7	0.0088 ON MAR 25	33 100	1983
1984	5.05 AT 15:12 CST ON JUN 18	4.48 ON JUN 18	0 A ON SEP 23	12 100	1984
				47 700	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

SEINE RIVER NEAR STE. ANNE - STATION NO. 05OH007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1984	---	---	0	5.87	4.56	2.13	0.388	0.088	0.185	1.51	---	---	1.83	1984
1985	---	---	0	8.20	4.82	2.43	2.09	0.180	0.763	2.22	---	---	2.56	1985
1986	---	---	0.015	10.8	12.4	4.33	0.89	0.349	1.80	0.540	---	---	4.98	1986
1987	---	---	1.55	29.6	6.87	0.834	0.255	0.128	0.020	0.118	---	---	4.84	1987
1988	---	---	0.887	2.08	2.87	1.81	1.10	0.928	1.31	0.982	---	---	1.50	1988
1989	---	---	0.270	7.74	2.88	1.88	1.05	0.527	0.243	0.880	---	---	1.88	1989
1970	---	---	0.110	7.57	13.2	5.78	0.821	0.089	0.102	0.320	---	---	3.48	1970
1971	---	---	0.186	4.26	2.48	0.952	0.418	0.215	0.107	0.824	---	---	1.18	1971
1972	---	---	0.318	6.07	2.74	0.474	0.092	0.237	0.247	0.430	---	---	1.31	1972
1973	---	---	1.57	1.54	1.36	1.80	0.853	0.427	0.873	3.61	---	---	1.48	1973
1974	---	---	0.184	18.5	16.2	3.88	0.020	0.063	0.143	0.249	---	---	4.87	1974
1975	---	---	0.142	1.28	3.33	2.83	2.75	0.188	0.084	1.31	---	---	1.48	1975
1976	---	---	0.217	3.45	1.09	1.03	0.418	0.007	0.007	0.035	---	---	0.773	1976
1977	---	---	0.224	0.818	0.451	0.841	0.217	0.070	0.708	0.828	---	---	0.488	1977
1978	---	---	0.158	8.78	3.30	0.801	0.288	0.058	0.064	0.082	---	---	1.78	1978
1979	---	---	0.018	5.88 R	4.84	3.09	0.151	0.138	0.180	0.152	---	---	1.68 R	1979
1980	---	---	0.070	2.32	0.488	0.131	0.078	0.039	0.182	0.278	---	---	0.441	1980
1981	---	---	0.244	0.578	0.588	0.833	0.250	0.134	0.331	1.28	---	---	0.487	1981
1982	---	---	0.187	5.31	2.20	3.12	2.81	1.00	0.188	1.88	---	---	2.00	1982
1983	---	---	1.80	7.88	3.08	1.38	1.37	0.200	0.102	0.188	---	---	1.82	1983
1984	---	---	0.838	0.888	0.678	5.24	0.818	0.088	0.004	0.078	---	---	1.03	1984
MEAN	---	---	0.401	8.73 R	4.28	2.08	1.21	0.243	0.357	0.820	---	---	2.00	MEAN

LOCATION - LAT 49 39 10 N, LONG 96 37 00 W
DRAINAGE AREA, 704 km^2
NATURAL FLOW

R - REVISED SINCE JAN 1980

SEINE RIVER NEAR STE. ANNE - STATION NO. 05OH007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1984	---	25.7 B ON APR 18	0 B ON MAR 1 *	38 700	1984
1985	---	27.6 ON APR 15	0 B ON MAR 1	54 800	1985
1986	---	44.7 ON JUL 4	0 B ON MAR 1	108 000	1986
1987	---	98.3 ON APR 22 *	0 B ON MAR 1	102 000	1987
1988	7.67 AT 12:00 CST ON MAY 20	7.53 ON MAY 19	0 B ON MAR 1	31 800	1988
1989	---	20.8 ON APR 12	0.102 ON SEP 4	39 500	1989
1970	33.5 AT 11:30 CST ON JUN 1	23.0 ON JUN 1	0.017 ON SEP 24	73 200	1970
1971	---	8.138 ON APR 9	0.031 ON SEP 25	24 300	1971
1972	---	19.7 B ON APR 15	0 ON AUG 4	27 800	1972
1973	---	6.62 ON OCT 15	0 ON AUG 31	31 800	1973
1974	80.0 AT 02:40 CST ON APR 22 *	56.9 ON APR 22	0.003E ON JUL 22	105 000	1974
1975	18.9 AT 03:35 CST ON JUL 2	18.5 ON JUL 2	0.012 ON SEP 17	31 400	1975
1976	---	5.888 ON APR 7	0 ON AUG 8	18 400	1976
1977	3.008 AT 08:40 CST ON MAR 31	2.35 ON SEP 26	0.0088 ON MAR 1	8 810	1977
1978	24.2 B AT 10:04 CST ON APR 12	21.2 B ON APR 12	0.015 ON SEP 11	37 300	1978
1979	34.1 B AT 09:23 CST ON APR 19	29.1 RB ON APR 19	0.0809 ON MAR 16	35 100R	1979
1980	10.4 B AT 11:15 CST ON APR 7	9.188 ON APR 7	0 ON JUL 31	8 320	1980
1981	2.00 AT 02:45 CST ON OCT 15	1.93 ON OCT 15	0.0198 ON MAR 5	10 500	1981
1982	22.6 AT 16:30 CST ON APR 16	18.5 B ON APR 16	0.0448 ON MAR 1	42 300	1982
1983	---	27.0 B ON APR 2	0.073 ON SEP 18	28 500	1983
1984	15.5 AT 12:18 CST ON JUN 12	15.3 ON JUN 12	0.0038 ON MAR 1	21 700	1984
				42 200R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

SHANNON CREEK NEAR MORDEN - STATION NO. 05OF021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	0	5.88	4.72	0.488	0.182	0.023	0.027	0.022	---	---	1.53	1970
1971	---	---	0	5.86	0.429	0.320	0.071	0.012	0.017	0.138	---	---	0.863	1971
1972	---	---	1.16	1.83	0.861	0.088	0.002	0.006	0	0	---	---	0.483	1972
1973	---	---	0.272	0.014	0.005	0	0.003	0	0	0.001	---	---	0.037	1973
1974	---	---	0	9.26	5.14	0.780	0.083	0.001	0.001	0.004	---	---	2.02	1974
1975	---	---	0	0.839	0.388	0.387	0.074	0	0	0	---	---	0.220	1975
1976	---	---	0	3.74	0.214	0.084	0.002	0	0	0	---	---	0.483	1976
1977	---	---	0	0.002	0.188	0.078	0	0	0	0	---	---	0.073	1977
1978	---	---	0.004	2.10	0.821	0.382	0.086	0.010	0.320	0.022	---	---	0.381	1978
1979	---	---	0	8.65	2.85	0.839	0.223	0	0.088	0	---	---	1.32	1979
1980	---	---	0	0.325	0.001	0	0.013	0	0	0	---	---	0.042	1980
1981	---	0.186	0.088	0.008	0.010	0.008	0	0	0	0	---	---	0.012	1981
1982	---	---	0.186	0.471	0.003	0.080	0	0	0	0	---	---	0.095	1982
1983	---	---	0.395	1.07	0.158	0.078	0.041	0	0	0.047	---	---	0.218	1983
1984	---	---	0.133	0.088	0.118	0.001	0	0	0	0	---	---	0.041	1984
MEAN	---	0.186	0.147	2.83	1.08	0.245	0.048	0.003	0.030	0.018	---	---	0.520	MEAN

LOCATION - LAT 49 15 10 N
LONG 97 58 40 W
DRAINAGE AREA, 308 km^2
NATURAL FLOW

REMARKS - WATER LEVELS OBTAINED NEAR KRONSGART IN 1922, 24, 28-30. 1981 MAX AND MIN DAILY DISCHARGE OF 1.38 AND 0 OCCURRED IN FEB

SHANNON CREEK NEAR MORDEN - STATION NO. 05OF021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	42.2 AT 11:35 CST ON APR 28	28.1 ON APR 28	0B ON MAR 1 *	32 300	1970
1971	85.1 B AT 08:53 CST ON APR 10 *	48.7 B ON APR 10	0B ON MAR 1	18 000	1971
1972	---	9.34 B ON MAR 18	0B ON MAR 1	9 810	1972
1973	---	1.02 B ON MAR 12	0B ON MAR 1	787	1973
1974	---	72.2 ON MAY 21 *	0B ON MAR 1	43 800	1974
1975	4.11 AT 19:54 CST ON APR 29	3.80 B ON APR 14	0B ON MAR 1	4 680	1975
1976	18.5 AT 20:18 CST ON APR 5	13.1 B ON APR 4	0B ON MAR 1	10 400	1976
1977	3.34 AT 08:28 CST ON SEP 26	3.00 ON SEP 26	0B ON MAR 1	1 540	1977
1978	---	9.88 B ON APR 5	0B ON MAR 1	8 270	1978
1979	---	58.4 B ON APR 20	0B ON MAR 1	27 800	1979
1980	---	1.20 B ON APR 6	0B ON MAR 1	880	1980
1981	---	0.1398 ON MAR 18	0 ON APR 12	258	1981
1982	---	2.93 B ON MAR 31	0B ON MAR 1	2 010	1982
1983	5.81 AT 12:13 CST ON APR 5	4.81 ON APR 5	0B ON MAR 1	4 580	1983
1984	---	1.14 B ON MAR 27	0B ON MAR 1	877	1984
				11 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SHANNON CREEK NEAR MORRIS - STATION NO. 05OP014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0.094	11.2	0.713	0.128	0.053	0	0	0	---	---	1.80	1980
1981	---	---	1.47	0.688	0.020	0	0.002	0	0	0	---	---	0.297	1981
1982	---	---	0	8.75	2.08	0.858	0.052	0.032	0	0	---	---	1.22	1982
1983	---	---	0.282R	0.338	0.001	2.81	0.087	0.004	0.001	0	---	---	0.447R	1983
1984	---	---	0	2.37	0.128	0.183	0.038	0.093	0.231	0.032	---	---	0.374	1984
1985	---	---	0	10.8	1.24	0.282	0.054	0	0	0	---	---	1.52	1985
1986	---	---	4.57	3.94	0.318	0.038	4.01	0	0	0	---	---	1.81	1986
1987	---	---	0	14.1	1.67	0.128	0.027	0	0	0	---	---	1.95	1987
1988	---	---	1.38	0.478	0.404	0.074	0.189	3.70	1.84	0.387	---	---	1.03	1988
1989	---	---	0	10.4	0.832	0.524	1.58	0.080	0.035	0.047	---	---	1.88	1989
1970	---	---	0	15.4	9.70	1.24	0.468	0.115	0.031	0.008	---	---	3.35	1970
1971	---	---	0	12.2	0.413	0.341	0.080	0	0	0.007	---	---	1.81	1971
1972	---	---	2.08	4.67	0.528	0.118	0.009	0.218	0.088	0.034	---	---	1.01	1972
1973	---	---	0.808	0.078	0.008	0.008	0.010	0.039	0.003	0.010	---	---	0.088	1973
1974	---	---	0	21.3	11.3	0.888	0.143	0.001	0.018	0	---	---	4.17	1974
1975	---	---	0	1.88	0.870	0.408	0.383	0	0	0	---	---	0.385	1975
1976	---	---	0	8.58	0.231	0.084	0	0	0	0	---	---	1.08	1976
1977	---	---	0	0.154	0.088	0.010	0.025	0	0.225	0.240	---	---	0.080	1977
1978	---	---	0.008	5.84	0.508	0.103	0.022	0	0.027	0.008	---	---	0.800	1978
1979	---	---	0	---	---	---	0.244	0.018	0	0	---	---	---	1979
1980	---	---	0	0.877	0.008	0	0	0	0	0	---	---	0.120	1980
1981	---	---	0.341	0.058	0.185	0.025	0.007	0.085	0	0	---	---	0.088	1981
1982	---	---	0.228	2.70	0.005	0.028	0	0	0	0.001	---	---	0.383	1982
1983	---	---	0.839	5.54	0.057	0.008	0.004	0	0	0	---	---	0.805	1983
1984	---	---	0.187	0.207	0.088	0.128	0.004	0	0	0	---	---	0.072	1984
MEAN	---	---	0.487R	5.85	1.30	0.385	0.315	0.178	0.092	0.033	---	---	1.07	MEAN

LOCATION - LAT 49 21 17 N LONG 97 25 18 W DRAINAGE AREA, 626 km² NATURAL FLOW

R - REVISED SINCE JAN 1980

SHANNON CREEK NEAR MORRIS - STATION NO. 05OP014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1980	---	45.3 ON APR 7	0B ON MAR 1 *	31 800	1980
1981	---	8.248 ON MAR 25	0B ON MAR 1	6 290	1981
1982	---	43.8 B ON APR 21	0 ON MAR 1	25 900	1982
1983	---	21.3 ON JUN 5	0B ON MAR 1	9 450R	1983
1984	---	11.0 B ON APR 11	0B ON MAR 1	7 930	1984
1985	---	47.8 B ON APR 13	0B ON MAR 1	32 100	1985
1986	---	47.3 B ON APR 1	0B ON MAR 1	34 000	1986
1987	---	91.7 B ON APR 21	0B ON MAR 1	41 500	1987
1988	---	24.4 ON AUG 27	0B ON MAR 1	21 800	1988
1989	---	54.1 B ON APR 12	0B ON MAR 1	35 100	1989
1970	---	45.9 ON APR 30	0B ON MAR 1	70 800	1970
1971	---	116 ON APR 11	0B ON MAR 1	34 000	1971
1972	---	15.2 B ON APR 15	0B ON MAR 1	31 400	1972
1973	---	2.098 ON MAR 21	0B ON MAR 1	2 030	1973
1974	---	126 ON APR 18 *	0B ON MAR 1	88 200	1974
1975	---	6.77 ON APR 28	0B ON MAR 1	6 150	1975
1976	---	58.8 B ON APR 6	0B ON MAR 1	23 100	1976
1977	2.13 AT 23:58 CST ON SEP 26	1.98 ON SEP 29	0B ON MAR 1	1 850	1977
1978	---	22.7 B ON APR 9	0B ON MAR 1	15 800	1978
1979	---	---	0B ON MAR 1	---	1979
1980	---	5.178 ON APR 7	0B ON MAR 1	2 550	1980
1981	3.67 AT 12:36 CST ON MAY 25 *	2.41 ON MAY 25	0B ON MAR 1	1 810	1981
1982	---	11.3 B ON APR 13	0B ON MAR 1	7 650	1982
1983	---	18.5 ON APR 6	0B ON MAR 1	17 000	1983
1984	---	1.638 ON MAR 29	0B ON MAR 1	1 530	1984
				22 800R	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

SHANNON CREEK TRIBUTARY NEAR MYRTLE - STATION NO. 05DF015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0.026	3.16	0.033	0.036	0.004	0	0	0	---	---	0.388	1980
1981	---	---	0.782	0.083	0	0	0	0	0	0	---	---	0.103	1981
1982	---	---	0	1.42	0.881	0.362	0	0	0	0	---	---	0.303	1982
1983	---	---	0.090	0.017	0	1.12	0	0	0	0	---	---	0.151	1983
1984	---	---	0	0.888	0.007	0	0	0	0.253	0	---	---	0.114	1984
1985	---	---	0	1.46	0.333	0.015	0	0	0	0	---	---	0.225	1985
1986	---	---	2.53	7.38	0.750	0	2.87	0	0	0	---	---	1.88	1986
1987	---	---	0.005	2.88	0.188	0	0	0	0	0	---	---	0.350	1987
1988	---	---	0.140	0.017	0.004	0	0	0	0	0	---	---	0.212	1988
1989	---	---	0	2.83	0.088	0.073	1.00	1.28	0.228	0.001	---	---	0.812	1989
1970	---	---	0	5.23	0.868	0.052	0	0.001	0	0	---	---	0.889	1970
1971	---	---	0	4.20	0.013	0.088	0.024	0	0	0	---	---	0.828	1971
1972	---	---	1.47	1.15	0.130	0	0	0	0	0	---	---	0.344	1972
1973	---	---	0.058	0.002	0	0	0	0	0	0	---	---	0.008	1973
1974	---	---	0	5.17	4.38	0.155	0	0	0	0	---	---	1.87	1974
1975	---	---	0	0.457	0.101	0.081	0.130	0	0	0	---	---	0.088	1975
1976	---	---	0	2.88	0.004	0.088	0	0	0	0	---	---	0.380	1976
1977	---	---	0	0.051	0	0	0	0	0	0	---	---	0.028	1977
1978	---	---	0.108	1.08	0.088	0.883	0	0	0.077	0.082	---	---	0.281	1978
1979	---	---	0	5.82	0.883	0.081	0.028	0	0	0	---	---	0.871	1979
1980	---	---	0	0.181	0	0	0	0	0	0	---	---	0.022	1980
1981	---	---	0.074	0.005	0.020	0.003	0	0	0	0	---	---	0.013	1981
1982	---	---	0.184	0.888	0.001	0	0	0	0	0	---	---	0.108	1982
1983	---	---	0.121	1.51	0.005	0	0	0	0	0	---	---	0.201	1983
1984	---	---	0.047	0.026	0.001	0	0	0	0	0	---	---	0.008	1984
MEAN	---	---	0.225	2.17	0.345	0.118	0.154	0.082	0.022	0.003	---	---	0.381	MEAN

LOCATION - LAT 49 20 34 N, LONG 97 50 33 W DRAINAGE AREA, 188 km² NATURAL FLOW

SHANNON CREEK TRIBUTARY NEAR MYRTLE - STATION NO. 05DF015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	18.3 ON APR 8	0B ON MAR 1 *	8 390	1980
1981	---	5.83 B ON MAR 24	0B ON MAR 1	2 170	1981
1982	---	14.7 B ON APR 20	0B ON MAR 1	6 410	1982
1983	---	17.2 ON JUN 5	0 ON MAR 1	3 200	1983
1984	---	3.62 B ON APR 9	0B ON MAR 1	2 410	1984
1985	---	7.45 B ON APR 11	0B ON MAR 1	4 770	1985
1986	---	78.2 B ON APR 1	0B ON MAR 1	35 000	1986
1987	---	19.3 B ON APR 21	0B ON MAR 1	7 400	1987
1988	---	13.1 ON AUG 25	0B ON MAR 1	4 480	1988
1989	---	43.8 B ON APR 10	0B ON MAR 1	13 000	1989
1970	---	43.8 ON APR 18	0B ON MAR 1	18 800	1970
1971	---	88.3 B ON APR 10	0B ON MAR 1	11 200	1971
1972	---	8.86 B ON MAR 18	0B ON MAR 1	7 270	1972
1973	---	0.1508 ON MAR 22	0B ON MAR 1	180	1973
1974	---	81.0 ON APR 17 *	0B ON MAR 1	33 300	1974
1975	---	3.40 ON APR 15	0B ON MAR 1	2 010	1975
1976	---	34.8 B ON APR 4	0B ON MAR 1	7 820	1976
1977	1.18 AT 16:50 CST ON SEP 29	1.06 ON SEP 29	0B ON MAR 1	648	1977
1978	3.84 AT 08:20 CST ON JUN 5	3.02 ON JUN 5	0 ON JUL 2	5 830	1978
1979	---	64.8 B ON APR 20	0B ON MAR 1	20 800	1979
1980	1.31 B AT 11:08 CST ON APR 9	1.14 B ON APR 9	0B ON MAR 1	470	1980
1981	---	0.2008 ON MAR 15	0B ON MAR 1	270	1981
1982	3.08 B AT 08:16 CST ON APR 13	2.48 B ON MAR 30	0B ON MAR 1	2 300	1982
1983	10.8 B AT 21:18 CST ON APR 5 *	4.87 B ON APR 5	0B ON MAR 1	4 280	1983
1984	0.7488 AT 07:52 CST ON MAR 29	0.5048 ON MAR 29	0B ON MAR 1	198	1984
				8 070	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SHELL RIVER AT ASSESSIPPI - STATION NO. 05MD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	7.88	2.88	1.48	1.88	1.84	1.78	1.03	---	1914
1915	0.482	0.283	0.485	3.78	2.80	2.88	3.83	1.88	1.78	2.78	1.88	0.880	1.84	1915
1916	1.13	0.880	0.708	18.8	10.2	11.4	7.88	2.80	2.88	4.85	3.84	1.70	5.80	1916
1917	0.827	0.824	0.871	3.33	20.8	13.8	18.3	4.18	3.18	1.84	2.48	1.04	5.88	1917
1918	0.883	1.07	1.88	7.83	4.88	8.47	10.8	5.80	3.88	3.18	2.13	1.81	4.22	1918
1919	1.48	1.20	0.884	5.80	10.4	4.70	10.8	3.78	4.81	3.88	2.08	1.18	4.81	1919
1920	1.12	1.01	1.22	8.70	38.7	14.4	5.05	2.48	2.01	---	---	---	---	1920
1921	---	---	---	8.02	13.3	23.1	18.8	11.8	8.82	8.88	---	---	---	1921
MEAN	0.887	0.875	1.04	8.82	14.8	10.8	9.48	4.21	3.34	3.82	3.34	1.33	4.43	MEAN

LOCATION - LAT 50 58 50 N, LONG 101 18 00 W DRAINAGE AREA, 2 000 km² NATURAL FLOW

SHELL RIVER AT ASSESSIPPI - STATION NO. 05MD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	9.88 ON APR 16	0.2838 ON FEB 5 *	61 300	1915
1916	---	36.5 B ON APR 19	0.7088 ON MAR 1	174 000	1916
1917	---	33.7 ON JUL 13	0.5388 ON DEC 13	168 000	1917
1918	---	21.8 ON JUL 4	0.7388 ON JAN 11	133 000	1918
1919	---	16.4 ON JUL 9	0.7888 ON MAR 4	142 000	1919
1920	---	72.2 ON MAY 14 *	---	---	1920
1921	---	41.8 ON JUN 25	---	---	1921
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		140 000	MEAN

SHELL RIVER NEAR DUCK LAKE - STATION NO. 05MD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1920	---	---	---	---	---	---	---	---	---	1.36	1.80	1.13	---	1920
1921	0.884	0.726	0.826	5.95	11.7	19.0	13.7	10.6	6.31	6.31	6.47	3.41	7.17	1921
1922	1.82	1.33	1.88	21.8	45.0	12.4	6.85	3.12	3.02	2.32	3.09	1.95	6.83	1922
1923	1.73	1.22	1.23	9.01	25.3	14.8	8.15	4.17	2.17	2.45	2.28	1.29	6.16	1923
1924	0.808	0.152	0.222	1.88	8.09	6.71	3.89	7.84	3.44	4.23	2.62	1.38	3.36	1924
1925	1.17	1.23	1.88	18.2	8.08	11.8	6.48	3.15	2.30	2.72	2.88	1.28	5.22	1925
1926	1.08	1.04	1.86	14.3	7.07	5.33	2.25	1.88	2.89	5.11	3.88	1.87	3.97	1926
1927	1.01	0.881	1.08	6.33	22.1	11.0	6.88	4.78	4.38	3.80	---	---	---	1927
1928	---	---	---	---	8.24	8.30	8.95	4.00	2.14	2.11	---	---	---	1928
1929	---	---	---	---	5.43	3.83	2.21	1.19	1.04	1.31	---	---	---	1929
1930	---	---	---	---	3.78	3.78	2.30	1.43	1.33	1.28	---	---	---	1930
1931	---	---	---	---	2.00	1.87	1.35	0.859	1.20	1.11	---	---	---	1931
1932	---	---	---	---	2.58	1.72	3.28	1.28	1.38	1.88	---	---	---	1932
MEAN	1.18	0.984	1.21	11.3	12.5	8.35	5.88	3.88	2.83	2.78	3.14	1.72	5.78	MEAN

LOCATION - LAT 51 10 10 N DRAINAGE AREA, 1 680 km^2
LONG 101 19 40 W NATURAL FLOW

SHELL RIVER NEAR DUCK LAKE - STATION NO. 05MD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1920	---	---	---	---	1920
1921	---	35.7 ON JUN 25	0.8518 ON JAN 1	226 000	1921
1922	---	83.4 ON MAY 7 *	1.27 B ON FEB 18	272 000	1922
1923	---	47.9 ON MAY 8	0.9838 ON DEC 31	195 000	1923
1924	---	18.2 ON JUN 21	0.1138 ON FEB 20 *	107 000	1924
1925	---	32.3 ON APR 17	1.13 B ON JAN 1	185 000	1925
1926	---	23.2 ON APR 22	0.9838 ON JAN 23	125 000	1926
1927	---	37.1 ON MAY 4	---	---	1927
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	---	---	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		182 000	MEAN

SHELL RIVER NEAR INGLIS - STATION NO. 05MD005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	29.5	8.18	11.5	6.38	2.81	2.07	---	---	---	1948
1949	---	---	---	8.19	2.97	4.70	2.44	2.34	1.25	1.18	1.26	---	---	1949
1950	---	---	---	---	---	---	---	---	---	---	---	---	---	1950
1951	---	---	---	---	9.85	5.52	5.71	3.44	1.29	2.22	---	---	---	1951
1952	---	---	---	8.31	17.7	4.38	3.73	2.78	5.02	5.88	---	---	---	1952
1953	---	---	---	10.3	5.84	3.65	1.82	1.14	1.81	2.01	---	---	---	1953
1954	---	---	---	6.52	5.02	10.5	19.5	5.28	5.53	4.52	5.36	---	---	1954
1955	---	---	---	6.52	15.0	30.2	14.0	3.23	5.23	5.73	4.27	---	---	1955
1956	---	---	---	18.8	17.5	7.55	4.32	1.43	1.05	1.48	---	---	---	1956
1957	1.36	1.07	1.08	4.78	14.4	5.52	7.13	2.75	2.47	1.95	1.78	1.33	---	1957
1958	0.419	0.389	0.830	9.18	18.1	3.82	2.08	1.40	1.17	1.31	1.38	0.888	3.32	1958
1959	0.873	0.448	0.748	4.02	2.21	1.58	1.01	0.587	1.18	1.58	1.78	0.886	1.35	1959
1960	0.805	1.03	1.08	5.48	8.04	4.38	5.25	1.09	1.41	2.68	2.47	1.72	2.77	1960
1961	0.728	0.541	0.503	10.8	8.83	5.58	2.03	0.852	0.343	0.528	1.02	0.883	3.07	1961
1962	0.822	1.02	1.03	1.48	1.38	0.780	0.407	0.143	0.122	0.323	0.829	0.867	0.880	1962
1963	0.227	0.238	0.815	2.33	2.48	1.33	0.321	0.388	0.477	0.847	0.888	0.388	1.02	1963
1964	0.883	0.585	0.585	5.08	4.76	3.32	1.48	0.701	0.837	0.848	0.788	0.824	1.54	1964
1965	0.001	0	0	4.84	4.07	1.28	0.812	0.502	0.471	0.738	0.858	0.815	1.24	1965
1966	0.848	0.872	1.07	5.88	8.14	5.17	2.08	1.84	1.80	3.18	1.43	0.874	2.88	1966
1967	0.780	0.681	0.718	8.71	12.1	7.57	8.20	1.38	0.578	0.808	0.888	0.780	3.81	1967
1968	0.859	0.883	1.38	1.87	9.18	5.21	1.82	0.830	0.284	0.584	0.804	0.888	1.92	1968
1969	0.799	0.928	1.08	4.87	2.24	1.28	1.02	1.08	0.908	0.910	0.845	0.884	1.35	1969
1970	0.788	0.814	0.807	5.03	3.16	1.82	2.11	2.08	0.841	2.21	1.82	0.893	1.88	1970
1971	1.18	1.08	0.938	7.13	18.7	3.71	2.77	3.88	0.824	1.28	8.82	1.77	4.08	1971
1972	1.18	1.08	1.10	15.4	7.84	4.27	2.78	1.88	0.888	1.32	1.48	1.11	3.32	1972
1973	0.282	0.277	0.758	11.3	16.0	3.48	2.88	1.00	0.888	0.881	0.818	0.878	3.40	1973
1974	0.871	0.798	0.802	4.88	2.28	3.30	3.80	1.01	1.88	1.78	1.47	1.22	1.88	1974
1975	1.10	1.04	1.10	15.4	23.8	10.2	2.71	1.40	1.83	2.85	1.78	1.12	5.30	1975
1976	1.08	1.28	1.11	7.88	17.7	10.4	3.47	1.41	1.80	2.89	2.78	1.18	4.40	1976
1977	0.384	0.487	0.823	18.4	7.11	24.7	8.34	1.80	0.835	1.01	0.823	0.488	5.84	1977
1978	1.08	0.748	1.34	5.03	3.24	1.88	2.07	1.80	3.40	4.24	2.30	1.38	2.18	1978
1979	0.823	0.829	0.888	8.38	8.88	3.45	1.87	0.888	0.818	1.38	1.41	0.782	2.21	1979
1980	0.748	0.783	0.889	11.8	21.7	11.8	2.08	0.782	0.802	0.838	1.88	0.805	4.81	1980
1981	0.338	0.423	2.87	8.22	3.28	1.02	0.832	0.887	0.888	1.18	1.23	0.830	1.70	1981
1982	0.217	0.371	0.373	4.37	2.88	1.05	1.44	0.887	0.885	1.28	1.33	0.804	1.88	1982
1983	0.818	0.831	0.748	4.88	3.87	1.88	4.10	2.48	0.492	1.20	1.34	0.888	1.84	1983
1984	0.888	0.707	4.84	7.88	12.2	7.85	8.34	1.83	0.714	1.28	1.88	0.883	3.88	1984
MEAN	0.715	0.703	1.08	7.88	8.84	8.84	4.81	0.787	0.788	2.24	1.30	2.00	3.38	MEAN

LOCATION - LAT 50 57 40 N
LONG 101 19 05 W

DRAINAGE AREA, 2 000 km²
NATURAL FLOW

SHELL RIVER NEAR INGLIS - STATION NO. 05MD005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	---	---	---	1948
1949	---	43.8 ON MAY 1	---	---	1949
		8.878 ON APR 7	---	---	
1950	---	---	---	---	1950
1951	---	---	---	---	1951
1952	---	36.3 ON MAY 8	---	---	1952
1953	---	10.5 ON APR 23	---	---	1953
1954	---	43.8 ON JUL 6	---	---	1954
		42.2 ON JUN 24	---	---	
1955	---	---	---	---	1955
1956	---	25.3 ON MAY 14	---	---	1956
1957	---	20.2 ON MAY 12	---	---	1957
1958	---	28.1 ON MAY 8	0.880B ON DEC 30	105 000	1958
1959	---	7.988 ON APR 8	0.283B ON JAN 25	42 400	1959
		10.1 ON MAY 8	0.311B ON FEB 10	87 800	
1960	---	---	---	---	1960
1961	---	21.8 ON APR 15	0.186E ON SEP 30	87 000	1961
1962	---	2.788 ON APR 15	0.020 ON SEP 5	20 800	1962
1963	---	8.87 ON APR 24	0.227 ON JUL 27	32 200	1963
1964	---	8.728 ON MAY 17	0.147B ON JAN 11	46 700	1964
		11.8 B ON APR 12	0.003B ON DEC 27	39 000	
1965	---	---	---	---	1965
1966	---	14.0 ON MAY 8	0 B ON JAN 8 *	83 800	1966
1967	---	16.8 A ON MAY 14	0.438 ON SEP 25	111 000	1967
1968	---	11.2 A ON MAY 12	0.187 ON SEP 12	80 800	1968
1969	---	7.628 ON APR 12	0.852B ON DEC 17	42 800	1969
		15.1 A ON APR 18	0.812A ON SEP 18	59 300	
1970	28.4 AT 18:38 CST ON MAY 15	28.0 ON MAY 15	0.303 ON SEP 20	128 000	1970
1971	30.3 AT 19:48 CST ON APR 28	30.0 ON APR 28	0.478 ON SEP 22	105 000	1971
1972	27.8 AT 08:31 CST ON MAY 7	27.7 ON MAY 7	0.389B ON DEC 31	108 000	1972
1973	---	7.938 ON APR 11	0.248B ON JAN 20	59 500	1973
1974	48.4 AT 08:02 CST ON APR 24 *	43.3 ON APR 24	0.778B ON FEB 13	187 000	1974
1975	28.3 AT 08:04 CST ON MAY 7	28.0 ON MAY 8	0.850B ON DEC 18	138 000	1975
1976	---	68.8 E ON JUN 22 *	0.413B ON DEC 31	176 000	1976
1977	18.8 AT 15:38 CST ON APR 17	18.5 ON APR 17	0.323B ON JAN 23	88 800	1977
1978	12.6 AT 08:47 CST ON APR 23	12.4 ON APR 28	0.388 ON AUG 12	88 500	1978
1979	46.8 AT 23:07 CST ON MAY 23	44.8 ON MAY 24	0.288 ON OCT 8	142 000	1979
1980	13.0B AT 23:10 CST ON APR 12	11.8 ON APR 21	0.388 ON AUG 2	83 800	1980
1981	---	8.83E ON APR 2	0.310B ON DEC 31	48 300	1981
1982	13.7 AT 01:24 CST ON JUL 28	13.1 ON JUL 24	0.188B ON JAN 31	58 100	1982
1983	---	22.1 A ON APR 24	0.484 ON SEP 28	113 000	1983
1984	17.8 AT 14:58 CST ON JUL 4	17.7 ON JUL 4	0.858 ON SEP 8	107 000	1984
				84 800	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SHELL RIVER NEAR ROBLIN - STATION NO. 05MD007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	---	---	---	---	---	---	---	---	---	0.583	---	1982
1983	0.418	0.303	0.375	2.42	2.07	1.37	0.826	0.429	0.402	0.521	0.480	0.306	1.71	1983
1984	0.301	0.253	0.227	2.21	2.07	0.565	0.365	0.338	0.319	0.522	0.709	0.180	1.47	1984
1985	0.052	0.058	0.143	3.95	7.50	4.75	1.45	1.19	1.26	2.14	0.883	0.680	4.08	1985
1986	0.718	0.628	0.849	5.80	10.5	5.50	4.37	0.713	0.388	0.505	0.842	0.688	5.88	1986
1987	0.580	0.441	0.341	2.00	7.51	3.85	0.897	0.470	0.335	0.441	0.502	0.478	3.38	1987
1988	0.534	0.510	0.642	2.49	1.13	0.958	0.768	0.638	0.638	0.579	0.838	0.657	1.30	1988
1989	0.508	0.512	0.522	4.84	2.08	1.32	1.75	1.26	0.456	2.14	1.22	0.711	2.15	1989
1990	0.588	0.534	0.523	3.22	15.8	3.09	2.89	2.38	0.809	1.41	3.72	1.28	5.84	1990
1991	0.673	0.658	0.800	13.5	4.88	2.68	2.04	1.68	0.370	0.922	1.33	1.13	5.35	1991
1992	0.618	0.724	0.777	8.87	13.6	1.87	1.87	0.880	0.400	0.813	0.823	0.447	5.85	1992
1993	0.204	0.173	0.783	2.21	1.81	2.38	2.78	0.674	1.13	1.28	1.08	1.01	1.76	1993
1974	0.805	0.490	0.889	9.35	15.5	7.85	1.92	0.934	1.23	2.07	1.30	0.828	5.23	1974
1975	0.788	0.840	0.850	5.14	15.7	6.81	2.47	0.848	1.20	2.15	2.04	0.854	7.81	1975
1976	0.742	0.778	0.881	12.7	4.72	15.5	5.80	1.27	0.828	0.765	0.809	0.613	5.12	1976
1977	---	---	0.483	2.87	2.17	1.08	---	---	---	---	---	---	1.84	1977
1978	---	---	0.845	4.28	3.89	1.75	---	---	---	---	---	---	2.88	1978
1979	---	---	0.575	5.21	19.7	6.84	---	---	---	---	---	---	8.85	1979
1980	---	---	0.687	5.35	1.84	0.885	---	---	---	---	---	---	2.12	1980
1981	---	---	1.30	2.87	1.72	1.48	---	---	---	---	---	---	1.78	1981
1982	---	---	0.184	2.91	2.28	1.12	---	---	---	---	---	---	1.82	1982
1983	---	---	0.808	4.15	10.0	5.87	4.85	---	---	---	---	---	5.20	1983
1984	---	---	1.28	5.20	7.39	7.00	---	---	---	---	---	---	5.20	1984
MEAN	0.548	0.481	0.649	5.01	7.25	4.20	2.32	0.877	0.883	1.15	1.14	0.702	4.27	MEAN

LOCATION - LAT 51 21 39 N DRAINAGE AREA, 1 330 km²
LONG 101 15 21 W NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

SHELL RIVER NEAR ROBLIN - STATION NO. 05MD007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1982	---	---	---	---	1982
1983	---	4.47 ON MAY 15	0.3098 ON MAR 1	15 000	1983
1984	---	7.14 ON MAY 10	0.2278 ON MAR 1	15 500	1984
1985	---	14.0 ON MAY 4	0.1088 ON MAR 1 *	43 000	1985
1986	---	15.0 ON MAY 10	0.8238 ON MAR 1	61 800	1986
1987	---	5.83 ON MAY 11	0.3118 ON MAR 14	35 700	1987
1988	---	4.28 ON APR 15	0.5138 ON MAR 21	13 700	1988
1989	---	13.7 ON APR 17	0.5158 ON MAR 1	22 800	1989
1990	---	25.4 ON MAY 11	0.5218 ON MAR 15	62 700	1990
1991	---	27.9 ON APR 23	0.5898 ON MAR 1	55 600	1991
1992	---	25.7 ON MAY 2	0.7028 ON MAR 11	61 700	1992
1993	---	3.515 ON APR 13	0.3988 ON MAR 1	15 700	1993
1974	---	30.0 ON APR 30	0.8898 ON MAR 1	97 200	1974
1975	---	25.8 ON MAY 3	0.8508 ON MAR 1	83 400	1975
1976	---	45.9 ON JUN 15 *	0.8618 ON MAR 1	98 100	1976
1977	---	5.75B ON APR 14	0.3118 ON MAR 31	17 300	1977
1978	---	9.80 ON APR 28	0.7788 ON MAR 1	28 300	1978
1979	44.2 AT 07:25 CST ON MAY 20 *	43.2 ON MAY 20	0.5808 ON MAR 1	90 100	1979
1980	9.58 AT 15:00 CST ON APR 19	8.38 ON APR 19	0.540E ON JUN 28	22 400	1980
1981	---	5.16B ON MAR 30	0.5008 ON MAR 1	15 900	1981
1982	---	6.17A ON APR 23	0.1788 ON MAR 1	17 100	1982
1983	15.7 AT 08:07 CST ON MAY 26	15.6 ON MAY 25	0.5508 ON MAR 1	54 800	1983
1984	---	15.3 ON JUN 30	0.8578 ON MAR 1	54 800	1984
				45 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SILVER CREEK NEAR GRANDVIEW - STATION NO. 05LJ040

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0.001	0.278	0.245	0.084	0.088	0.049	0.348	0.483	---	---	0.188	1977
1978	---	---	0.034	0.492	0.341	0.317	0.082	0.008	0.050	0.132	---	---	0.178	1978
1979	---	---	0.018	0.980	1.73	0.778	0.034	0.001	0.004	0.088	---	---	0.480	1979
1980	---	---	0.034	0.888	0.108	0.002	0	0	0.008	0.089	---	---	0.110	1980
1981	---	---	0.078	0.218	0.147	0.127	0.403	0	0	0.089	---	---	0.133	1981
1982	---	---	0.002	0.182	0.254	0.022	0.083	0.289	0	0.232	---	---	0.134	1982
1983	---	---	0	0.826	0.877	1.11	1.23	0.002	0	0.148	---	---	0.836	1983
1984	---	---	0.087	0.338	0.293	1.81	1.44	0.010	0	0.111	---	---	0.508	1984
MEAN	---	---	0.032	0.488	0.512	0.529	0.419	0.045	0.051	0.188	---	---	0.281	MEAN

LOCATION - LAT 51 12 28 N DRAINAGE AREA, 137 km²
LONG 100 41 42 W REGULATED

SILVER CREEK NEAR GRANDVIEW - STATION NO. 05LJ040

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	0.858 AT 05:48 CST ON SEP 28	0.844 ON SEP 28	0B ON MAR 1 *	4 180	1977
1978	0.928 AT 19:58 CST ON OCT 27	0.7848 ON APR 20	0 ON AUG 4	3 770	1978
1979	---	5.71 B ON APR 21 *	0 ON JUL 21	9 540	1979
1980	1.52 AT 08:30 CST ON APR 19	1.44 ON APR 19	0 ON MAY 30	2 320	1980
1981	4.72 AT 00:08 CST ON JUL 2	2.58 ON JUL 2	0B ON MAR 1	2 810	1981
1982	---	1.38 ON AUG 8	0B ON MAR 1	2 830	1982
1983	---	5.04 B ON APR 23	0B ON MAR 1	11 400	1983
1984	5.78 AT 12:11 CST ON JUN 24 *	5.25 ON JUN 25	0B ON MAR 1	10 800	1984
				5 950	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SINCLAIR RIVER NEAR MINITONAS - STATION NO. 05LE008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1988	---	---	0.089	0.140	0.158	0.140	0.281	1.29	0.133	0.035	---	---	0.285	1988
1989	---	---	0	3.27	1.40	1.04	0.377	0.238	0.227	1.80	---	---	0.927	1989
1970	---	---	0.001	3.73	5.57	0.720	1.93	0.575	0.158	2.51	---	---	1.80	1970
1971	---	---	0.013	7.85	1.11	3.54	1.36	0.538	0.018	0.275	---	---	1.83	1971
1972	---	---	0.012	5.04	3.40	0.242	0.480	0.037	0.004	0.008	---	---	1.14	1972
1973	---	---	0.180	0.677	0.895	4.18	1.41	0.184	0.720	0.510	---	---	1.04	1973
1974	---	---	0.008	7.73	7.81	1.84	0.088	0.038	0.204	0.258	---	---	2.21	1974
1975	---	---	0	3.25	3.27	1.80	0.080	0.001	0.223	0.888	---	---	1.13	1975
1976	---	---	0.002	8.22	0.851	3.80	0.440	0.015	0	0	---	---	1.30	1976
1977	---	---	0	0.775	0.190	0.088	0.082	0.258	1.70	0.891	---	---	0.481	1977
MEAN	---	---	0.028	3.87	2.44	1.72	0.851	0.318	0.338	0.705	---	---	1.23	MEAN

LOCATION - LAT 52 10 20 N DRAINAGE AREA, 288 km^2
LONG 100 58 30 W NATURAL FLOW

SINCLAIR RIVER NEAR MINITONAS - STATION NO. 05LE008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1988	---	3.80 ON JUL 31	0B ON MAR 1 *	8 030	1988
1989	---	7.80 ON APR 14	0B ON MAR 1	19 800	1989
1970	---	18.8 ON MAY 3	0B ON MAR 1	40 300	1970
1971	---	35.8 ON APR 17	0 ON SEP 22	38 700	1971
1972	16.4 AT 12:00 CST ON APR 22	15.2 ON APR 22	0B ON MAR 1	24 200	1972
1973	16.5 AT 15:55 CST ON JUN 20	15.0 ON JUN 20	0B ON MAR 1	22 100	1973
1974	41.1 B AT 23:15 CST ON APR 19 *	38.4 ON APR 20 *	0 ON AUG 11	46 700	1974
1975	9.23 AT 17:57 CST ON MAY 3	8.52 ON MAY 3	0B ON MAR 1	23 900	1975
1976	18.1 AT 18:37 CST ON JUN 14	18.1 ON JUN 14	0B ON MAR 1	27 400	1976
1977	---	4.42 ON SEP 28	0B ON MAR 1	10 400	1977
				28 900	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SNOWFLAKE CREEK NEAR SNOWFLAKE - STATION NO. 05DB018

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.058	0.076	0.027	0.011	0	0	0	0	0	0	---	1981
1982	0	0	0	0.488	0.025	0	0	0	0	0	0	0	0.040	1982
1983	0	0	0.057	0.018	0.017	0.005	0.017	0.001	0	0	0	0	0.017	1983
1984	0	0	0.051	0.158	0.008	0.005	0.001	0	0	0	0	0	0.021	1984
1985	0	0	0.008	0.388	0.084	0.078	0.023	0.002	0.048	0.088	0.038	0	0.080	1985
1986	0	0	0.824	3.48	1.83	0.420	0.235	0.110	0.035	0.010	0.002	0	0.845	1986
1987	0	0	0.178	1.31	2.77	0.708	0.270	0.058	0.042	0.347	0.089	0.001	0.485	1987
1988	0	0	0.141	0.385R	0.111	0.007	0.100R	0.264R	0.187R	0.021	0.002	0	0.103R	1988
1989	0	0	0	7.58	2.84	0.827	0.348	0.117	0.005	0	0	0	0.862	1989
1970	0	0	0	2.08	4.38	2.24	0.980	0.312	0.233	0.087	0.024	0	0.888	1970
1971	0	0	0	8.37	3.88	0.838	0.734	0.188	0.084	0.071	0.013	0.002	1.17	1971
1972	0	0	0.477	3.58	1.47	0.187	0.008	0	0	0	0	0	0.473	1972
1973	0	0	0.148	0.008	0.002	0	0	0	0	0	0	0	0.013	1973
1974	0	0	0	8.61	10.8	3.48	0.845	0.278	0.184	0.135	0.050	0.012	1.88	1974
1975	0	0	0.117	0.738	1.03	0.334	0.038	0.002	0.005	0.008	0.001	0	0.188	1975
1976	0	0	0.017	5.68	1.74	0.817	0.285	0.188	0.045	0.001	0	0	0.701	1976
1977	0	0	0.008	0.074	0.047	0.008	0	0	0.003	0	0	0	0.012	1977
1978	0	0	0.013	2.83	1.33	0.084	0.020	0.011	0	0	0	0	0.348	1978
1979	0	0	0	8.39	11.1	1.88	0.534	0.080	0.071	0.002	0.002	0	1.85	1979
1980	0	0	0.005	0.388	0.087	0.001	0	0	0.005	0.074	0.148	0.008	0.054	1980
1981	0	0.140	0.188	0.884	0.303	0.118	0.018	0.003	0.001	0.002	0.001	0	0.111	1981
1982	0	0	0.188	1.78	0.887	1.82	0.123	0.008	0	0.008	0.004	0.021	0.388	1982
1983	0	0	0.208	0.888	0.210	0.010	0.148	0.083	0	0.002	0.002	0	0.108	1983
1984	0	0.001	0.110	0.085	0.057	0.002	0	0	0	0	0	0	0.021	1984
MEAN	0	0.008	0.107	2.23 R	1.88	0.847	0.188R	0.088R	0.038R	0.038	0.018	0.002	0.443	MEAN

LOCATION - LAT 48 01 17 N DRAINAGE AREA, 970 km^2 INTERNATIONAL GAUGING STATION R - REVISED SINCE JAN 1980
LONG 98 38 13 W NATURAL FLOW

SNOWFLAKE CREEK NEAR SNOWFLAKE - STATION NO. 05080010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	0.3858 ON MAR 27	0B ON MAR 1 *	---	1981
1982	---	2.86 ON APR 16	0 ON JAN 1	1 280	1982
1983	---	0.280 ON MAR 21	0 ON JAN 1	543	1983
1984	---	0.614 ON APR 9	0 ON JAN 1	882	1984
1985	---	1.25 ON APR 11	0B ON JAN 1	1 810	1985
1986	---	5.43 ON APR 14	0B ON JAN 1	17 200	1986
1987	---	5.75 B ON APR 20	0B ON JAN 1	15 300	1987
1988	3.77 AT 07:50 CST ON JUL 30	1.73 R ON AUG 25	0B ON JAN 1	3 240R	1988
1989	---	18.5 A ON APR 11	0B ON JAN 1	30 400	1989
1970	---	7.80 ON APR 25	0B ON JAN 1	27 300	1970
1971	18.8 B AT 00:00 CST ON APR 12	16.2 B ON APR 11	0B ON JAN 1	36 800	1971
1972	---	9.88 ON APR 17	0B ON JAN 1	15 000	1972
1973	0.8008 AT 11:35 CST ON MAR 18	0.4388 ON MAR 11	0B ON JAN 1	422	1973
1974	23.3 AT 03:26 CST ON MAY 21 *	19.0 ON MAY 21	0B ON JAN 1	58 700	1974
1975	4.47 AT 20:30 CST ON APR 28	2.81 ON MAY 1	0B ON JAN 5	5 980	1975
1976	---	9.74 B ON APR 8	0B ON JAN 1	22 200	1976
1977	0.824 AT 03:41 CST ON MAY 19	0.480 ON MAY 19	0B ON JAN 1	386	1977
1978	8.89 AT 21:00 CST ON APR 27	5.37 ON APR 28	0B ON JAN 1	10 900	1978
1979	---	32.0 B ON APR 21 *	0B ON JAN 1	52 000	1979
1980	1.88 B AT 09:42 CST ON APR 5	1.21 B ON APR 5	0B ON JAN 1	1 720	1980
1981	2.31 AT 22:15 CST ON MAY 22	0.705 ON APR 7	0B ON JAN 1	3 510	1981
1982	---	14.3 ON JUN 8	0B ON JAN 1	12 200	1982
1983	1.80 B AT 10:55 CST ON APR 8	1.13 B ON APR 7	0B ON JAN 1	3 440	1983
1984	0.840 AT 13:39 CST ON MAR 28	0.421 ON MAR 28	0B ON JAN 1	872	1984
				14 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

SOURIS RIVER AT MELITA - STATION NO. 05NF001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	---	---	---	---	---	3.60	2.39	1.04	0.981	0.888	---	---	---	1913
1914	---	---	---	---	---	---	4.27	3.18	1.20	0.888	---	---	---	1914
1915	0	0	0	0.714	2.03	1.10	0.783	0.274	0.828	0.874	0.188	0	0.881	1915
1916	0	0	0	44.2	84.2	37.5	9.60	5.18	1.68	1.54	0.888	0.142	38.4	1916
1917	0.120	0.110	0.473	20.1	28.7	10.4	2.58	0.488	0.273	0.227	0.447	0.080	14.4	1917
1918	0	0	1.82	10.8	4.78	2.05	0.488	0.491	0.342	0.388	0.284	---	4.88	1918
1919	---	---	---	31.2	27.4	3.28	0.882	0.172	0.180	0.388	---	---	---	1919
1920	---	---	---	24.7	43.8	20.4	3.82	1.88	0.811	0.810	---	---	---	1920
1921	---	---	---	5.87	4.10	2.44	4.18	4.44	1.80	0.838	0.531	---	---	1921
1922	---	---	0.948	35.1	28.8	10.1	3.38	1.78	0.892	---	---	---	18.7	1922
1935	---	---	---	---	---	---	---	---	---	0.872	---	---	---	1935
1936	---	---	---	9.38	0.848	0.088	0.040	0	0	---	---	---	---	1936
1975	---	---	0.808	42.8	184	148	60.1	---	---	---	---	---	83.4	1975
1976	---	---	12.8	387	218	78.1	28.4	18.7	8.81	---	---	---	172	1976
MEAN	0.030	0.028	2.33	85.8	84.8	28.1	8.13	2.84	1.43	0.803	0.405	0.087	48.7	MEAN

LOCATION - LAT 49 15 50 N LONG 100 58 20 W
DRAINAGE AREA, 49 000 km^2
REGULATED

REMARKS - THE SOURIS RIVER BASIN STUDY ESTIMATED FLOWS OF HISTORICAL FLOODS, 1882 AND 1904 WERE 850 AND 481 m^3/s RESPECTIVELY

SOURIS RIVER AT MELITA - STATION NO. 05NF001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	---	---	---	1913
1914	---	---	---	---	1914
1915	---	5.12 ON JUN 15	0 E ON MAR 1 *	10 100	1915
1916	---	107 ON APR 22	0 B ON MAR 1	383 000	1916
1917	---	28.2 ON MAY 5	0.1138 ON MAR 1	182 000	1917
1918	---	15.4 ON APR 10	0.1138 ON MAR 1	81 100	1918
1919	---	38.9 ON APR 21	1.73 ON JUN 28	---	1919
1920	---	66.0 ON APR 24	0 B ON APR 1	---	1920
1921	---	14.2 B ON APR 15	0 B ON APR 1	---	1921
1922	---	48.2 ON APR 8	0 B ON MAR 1	187 000	1922
1935	---	---	---	---	1935
1936	---	38.0 ON APR 18	0 B ON APR 1	---	1936
1975	---	242 ON MAY 7	0.3888 ON MAR 1	885 000	1975
1976	---	556 B ON APR 12 *	5.66 B ON MAR 1	1 810 000	1976
				813 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER AT SOURIS - STATION NO. 05NG021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.414	13.7	15.1	4.47	0.840	0.509	0.434	0.819	---	---	4.47	1967
1968	---	---	1.25	0.885	0.942	0.497	0.375	1.85	8.78	4.70	---	---	2.17	1968
1969	---	---	0.242	128	183	68.4	20.1	10.7	3.08	1.81	---	---	48.4	1969
1970	---	---	1.39	19.8	80.8	83.0	46.8	12.8	2.41	2.32	---	---	31.1	1970
1971	---	---	2.09	20.8	39.5	18.3	13.0	11.3	2.06	3.06	---	---	14.0	1971
1972	---	---	14.0	72.5	70.8	26.0	18.4	5.00	3.61	4.13	---	---	26.8	1972
1973	---	---	2.15	1.10	8.61	3.12	3.77	1.81	1.76	4.00	---	---	2.95	1973
1974	---	---	1.87	88.0	187	113	36.3	8.08	2.88	1.91	---	---	52.0	1974
1975	---	---	0.820	30.3	218	178	78.1	18.7	8.37	27.5	---	---	89.5	1975
1976	---	---	8.56	483	276	102	35.8	17.3	8.18	3.35	---	---	116	1976
1977	---	---	1.02	1.03	1.53	1.05	0.748	0.375	0.861	0.818	---	---	1.03	1977
1978	---	---	0.718	18.0	11.7	2.17	4.37	8.88	4.48	0.868	---	---	5.86	1978
1979	---	---	1.76	28.7	141	121	37.8	8.84	1.81	0.891	---	---	42.0	1979
1980	---	---	0.821	4.15	5.10	0.785	0.703	0.988	1.08	3.11	---	---	2.10	1980
1981	---	---	8.23	8.88	4.30	4.15	2.02	1.23	1.00	1.02	---	---	3.35	1981
1982	---	---	0.281	35.6	88.2	28.8	2.80	3.78	4.85	8.87	---	---	18.8	1982
1983	---	---	18.1	78.5	82.8	8.98	5.07	5.07	12.1	8.08	---	---	24.4	1983
1984	---	---	2.89	8.80	20.5	15.0	3.80	2.00	1.45	2.01	---	---	6.73	1984
MEAN	---	---	3.40	57.3	74.0	43.0	17.2	6.57	3.80	4.18	---	---	28.1	MEAN

LOCATION - LAT 49 37 10 N LONG 100 18 00 W DRAINAGE AREA, 58 000 km² REGULATED

SOURIS RIVER AT SOURIS - STATION NO. 05NG021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1967	---				
1968	---	23.3 ON APR 22	0.2488 ON MAR 1	84 800	1967
1969	---	7.70 ON SEP 8	0.054 ON JUN 3 *	48 800	1968
		314 ON APR 21	0.2278 ON MAR 1	1 030 000	1969
1970	---				
1971	---	88.3 ON MAY 17	1.30 B ON MAR 31	858 000	1970
1972	---	43.3 ON MAY 4	1.18 ON SEP 4	288 000	1971
1973	---	100 ON APR 27	1.58 B ON MAR 1	888 000	1972
1974	---	12.0 ON MAY 28	0.284 ON APR 23	82 800	1973
		284 ON APR 28	0.7088 ON MAR 23	1 100 000	1974
1975	---				
1976	---	289 ON MAY 11	0.8588 ON APR 1	1 470 000	1975
1977	---	702 ON APR 14 *	2.03 ON OCT 21	2 480 000	1976
1978	---	3.54 ON MAY 22	0.244 ON SEP 21	21 700	1977
1979	---	28.9 B ON APR 17	0.258 ON JUL 10	124 000	1978
		188 ON MAY 28	0.093 ON SEP 18	880 000	1979
1980	---				
1981	15.2 AT 08:02 CST ON MAR 17	8.288 ON APR 14	0.2278 ON MAR 1	44 400	1980
1982	78.58 AT 16:41 CST ON APR 15	12.8 ON MAR 17	0.783 ON OCT 23	70 800	1981
1983	81.8 AT 13:16 CST ON APR 12 *	76.7 B ON APR 15	0.0888 ON MAR 27	388 000	1982
1984	27.6 AT 10:20 CST ON JUN 2	81.4 ON APR 12	1.72 ON OCT 24	817 000	1983
		27.3 ON JUN 2	0.9588 ON MAR 8	143 000	1984
				852 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER AT WAWANESA - STATION NO. 05MD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	2.27	---	---	---	1912
1913	0.283	---	---	27.4	28.0	4.71	1.42	1.18	1.33	1.05	0.708	0.425	---	1913
1914	0.142	0	0	14.2	18.3	5.70	4.62	2.76	1.56	0.803	0.567	0.142	4.25	1914
1915	0	0	0.057	3.41	1.81	1.41	1.13	0.124	0.848	0.848	0.429	0.057	0.880	1915
1916	0.028	0	0.057	58.0	74.5	46.6	13.7	5.18	3.38	2.24	1.68	0.566	17.0	1916
1917	0	0	0.418	23.5	29.5	14.5	3.78	1.08	0.397	0.383	0.566	0.085	5.27	1917
1918	0	0	2.08	13.0	5.50	3.01	0.788	0.588	0.380	1.04	0.823	0.514	2.35	1918
1919	0.177	0	0.271	37.5	33.2	5.34	1.80	0.523R	0.297R	0.311	0.227	0.028	8.84 R	1919
1920	0	0	0	19.5	51.5	28.0	5.27	2.02	1.28	1.14	0.566	---	---	1920
1921	---	---	---	7.07	8.54	3.60	2.68	5.38	2.12	1.38	0.731R	---	---	1921
1922	---	---	0.883	38.2	30.7	13.1	3.83	2.21	1.14	0.872	1.18	---	---	1922
1923	---	---	---	48.5	67.4	40.2	18.7.	13.0	3.89	2.62	2.31	---	---	1923
1924	---	---	---	---	14.0	5.61	7.68	2.06	0.936	1.37	---	---	---	1924
1925	---	---	---	48.1	28.6	26.7	8.30	3.33	1.28	1.42	---	---	---	1925
1926	---	---	---	3.21	3.11	2.22	2.62	1.41	1.21	1.28	---	---	---	1926
1927	---	---	---	42.7	57.5	78.4	52.5	17.1	10.4	8.22	7.88	---	---	1927
1928	---	---	---	43.3	42.1	24.4	32.2	28.3	13.4	5.85	3.34	---	---	1928
1929	---	---	---	12.2	8.73	8.35	2.92	0.563	1.02	0.686	0.321	---	---	1929
1930	---	---	---	35.9	18.6	5.54	2.26	0.600	0.088	0.217	---	---	---	1930
1931	---	---	---	1.14	0.337	0.144	0.088	0.002	0.001	0.001	0.001	0	---	1931
1932	0	0	0	3.58	2.56	1.17	0.898	0.092	0.008	0.104	---	---	---	1932
1933	---	---	2.80 R	28.5	10.4	2.57	4.26	1.48	0.776	0.112	---	---	---	1933
1934	---	---	---	14.0	2.51	0.488	0.042	0	0	0	0	0	---	1934
1935	0	0	---	4.81	2.58	2.06.	20.5	4.78	0.935	0.238	0.142	0	---	1935
1936	0	0	0	24.4	2.55	0.712	0.048	0	0	0	0	0	2.28	1936
1937	0	0	0	0.714	0.301	0.421	0.057	0.123	0.001	0	0	0	0.134	1937
1938	0	0	5.84	1.07	0.347	0.107	0.023	0.002	0	0	0	0	0.808	1938
1939	0	0	3.53	8.62	0.288	0.218	0.027	0	0	---	---	---	---	1939
1940	---	---	---	---	---	0.378	0.058	0.018	0.033	0.020	---	---	---	1940
1941	---	---	---	---	11.7 R	0.880	0.354	0.090	0.045	0.415	0.874	---	---	1941
1942	---	---	---	---	14.1	3.47	0.915	0.580	0.895	---	---	---	---	1942
1943	---	---	---	40.6	52.0	43.3	22.3	8.27	1.58	1.81	---	---	---	1943
1944	---	---	---	5.16	9.03	8.31	36.8	8.52	8.84	4.78	---	---	---	1944
1945	---	---	---	24.1	8.83	1.88	2.11	2.51	0.588	0.600	---	---	---	1945
1946	---	---	---	24.8	2.49	0.812	0.788	0.280	1.01	1.62	---	---	---	1946
1947	---	---	---	41.4	28.2	12.2	22.4	10.8	5.01	1.62	---	---	---	1947
1948	---	---	---	---	57.0	58.7	27.1	17.2	4.74	3.25	---	---	---	1948
1949	---	---	---	118	84.0	30.4	8.23	4.03	2.35	1.83	---	---	---	1949
1950	---	---	---	35.2	77.3	71.2	28.4	18.8	10.0	8.84	---	---	---	1950
1951	---	---	---	73.7 R	104	80.7	17.8	3.21	4.80	4.24	---	---	---	1951
1952	---	---	---	28.4	22.3	4.22	2.67	1.83	1.10	0.140	---	---	---	1952
1953	---	---	---	10.8	16.0	23.7	30.4	20.4	8.35	3.11	0.75	1.70	---	1953
1954	3.82	3.85	4.98	10.7	8.80	28.8	48.8	22.3	8.23	18.8	11.2	8.85	14.7	1954
1955	8.25	4.47	3.28	87.4	105	78.8	44.3	18.2	9.27	8.13	4.32	1.88	31.8	1955
1956	0.819	0.842	0.518	74.8	83.8	88.8	21.7	10.1	7.48	6.47	7.81	2.88	23.6	1956
1957	1.05	0.840	5.38	8.26	10.4	9.10	5.70	5.20	3.84	2.88	3.07	2.18	4.80	1957
1958	0.388	0.832	4.18	18.0	4.88	3.20	1.44	0.804	0.481	0.883	0.280	0.023	2.83	1958
1959	0.003	0.003	2.79	3.38	0.878	0.809	0.884	0.174	0.527	1.83	3.48	1.07	1.24	1959
1960	0.883	0.787	0.880	85.4	41.7	17.2	2.35	0.800	0.884	1.10	0.728	0.383	12.7	1960
1961	0.188	0.184	0.788	3.01	1.13	0.328	0.344	0.017	0.041	0.218R	0.298R	0.082	0.880R	1961
1962	0.038	0.048	0.082	10.7	1.37	1.85	0.883	0.728	0.820	1.37	0.284	0.217	1.47	1962
1963	0.072	0	0.828	3.27	1.28	5.83	3.88	0.572	0.884	0.810	0.878	0.181	1.47	1963
1964	0.028	0.083	0.147	13.8 R	13.8	2.04	4.87	0.848	2.14	3.82	0.808	0.147	3.48 R	1964
1965	0.138	0.081	0.088	17.0	12.8	17.0	14.8	8.09	8.37	7.87	2.84	1.85	7.38	1965
1966	1.88	1.17	20.8	23.0	30.0	13.0	4.73	2.02	0.787	0.788	0.575	0.281	8.28	1966
1967	0.282	0.182	0.720	15.3	15.8	5.31	0.882	0.220	0.084	0.882	0.638	0.201	3.43	1967
1968	0.112	0.128	3.73	1.88	0.884	0.488	0.747	1.38	5.87	5.88	1.88	0.801	1.88	1968
1969	0.470	0.808	0.480	188	188	78.8	24.8	18.7	4.02	2.14	1.84	1.80	38.8	1969
1970	1.87	1.88	1.41	32.0	85.8	84.7	50.8	15.8	3.02	2.85	2.22	0.708	23.7	1970
1971	0.434	0.882	1.87	23.0	38.5	20.0	13.2	11.1	2.22	3.27	6.18	3.24	10.4	1971
1972	2.47	2.07	18.6	74.5	75.8	25.8	20.3	7.24	4.11	4.18	8.78	0.721	20.3	1972
1973	0.451	0.888	3.24	1.73	5.25	3.80	3.84	2.08	2.14	4.38	1.04	0.631	2.48	1973
1974	0.584	0.878	1.85	121	174	118	38.8	5.77	3.27	2.43	3.84	1.88	38.5	1974
1975	1.03	0.889	1.08	48.2	212	175	88.5	23.4	10.4	28.8	24.8	12.2	82.1	1975
1976	8.01	7.47	7.80	488	288	107	38.3	20.1	11.1	3.71	2.40	1.83	81.8	1976
1977	1.80	1.08	1.74	2.18	1.86	1.08	1.13	0.488	1.04	0.828	0.810	0.818	1.19	1977
1978	0.770	0.788	0.828	25.8	13.0	2.85	4.64	8.13	4.23	0.823	0.722	0.442	5.03	1978
1979	0.485	0.822	1.58	28.5	137	118	37.1	8.23	1.82	1.03	0.881	0.281	28.0	1979
1980	0.188	0.254	0.841	8.18	4.87	1.18	0.773	1.29	1.34	3.38	3.38	1.88	2.18	1980
1981	1.24	3.84	7.58	8.78	4.52	4.11	2.22	1.86	1.84	1.58	1.85	0.581	3.13	1981
1982	0.142	0.133	1.04	40.8	57.7	28.8	3.04	3.41	4.38	8.38	8.78	1.85	12.8	1982
1983	1.81	2.41	13.7	88.8	67.1	11.7	8.07	4.82	11.7	8.44	8.22	1.28	18.1	1983
1984	0.804	1.34	4.84	7.03	20.8	17.8	3.83	2.14	1.78	2.81	2.28	1.44	5.44	1984
MEAN	0.847	0.885	2.87 R	37.0 R	38.3	23.8	12.2	8.83 R	2.84 R	2.80 R	2.71 R	1.18	12.8	MEAN

LOCATION - LAT 49 38 05 N LONG 99 40 55 W DRAINAGE AREA, 80 300 km² REGULATED

R - REVISED SINCE JAN 1980

REMARKS - THE SOURIS RIVER BASIN STUDY ESTIMATED FLOWS OF HISTORICAL FLOODS, 1852 AND 1904 WERE 1130 AND 886 m³/s RESPECTIVELY

SOURIS RIVER AT WAWANESA - STATION NO. 05NG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	42.5 ON MAY 3	---	---	1913
1914	---	30.9 ON APR 25	0 B ON FEB 1 *	134 000	1914
1915	---	8.44 ON APR 14	0 B ON JAN 1	27 100	1915
1916	---	173 ON APR 19	0 B ON FEB 1	536 000	1916
1917	---	43.0 ON APR 16	0 B ON JAN 1	188 000	1917
1918	---	21.7 ON APR 7	0 B ON JAN 1	74 000	1918
1919	---	57.8 B ON APR 7	0 B ON FEB 1	210 000R	1919
1920	---	78.3 ON APR 27	0 B ON JAN 1	---	1920
1921	---	18.7 ON APR 19	---	---	1921
1922	---	57.5 ON APR 12	0 B ON MAR 1	---	1922
1923	---	157 ON APR 16	---	---	1923
1924	---	---	---	---	1924
1925	---	85.0 E ON APR 3	---	---	1925
1926	---	14.5 ON APR 20	---	---	1926
1927	---	83.8 ON JUN 5	---	---	1927
1928	---	85.1 B ON MAR 30	---	---	1928
1929	---	36.6 B ON APR 15	---	---	1929
1930	---	75.9 B ON APR 5	---	---	1930
1931	---	3.68 ON APR 11	0 B ON APR 1	---	1931
1932	---	7.85 ON APR 15	0 B ON JAN 1	---	1932
1933	---	51.0 RB ON MAR 31	0 RB ON MAR 1	---	1933
1934	---	32.8 B ON APR 7	0 B ON APR 1	---	1934
1935	---	38.9 ON JUL 3	0 ON JAN 1	---	1935
1936	---	68.0 B ON APR 13	0 B ON JAN 1	71 800	1936
1937	---	1.87 ON APR 18	0 ON JAN 1	4 230	1937
1938	---	34.0 B ON MAR 20	0 ON JAN 1	19 200	1938
1939	---	36.2 ON APR 3	0 ON JAN 1	---	1939
1940	---	---	---	---	1940
1941	---	---	---	---	1941
1942	---	---	---	---	1942
1943	---	57.8 ON MAY 15	---	---	1943
1944	---	42.2 ON JUL 16	0 B ON APR 1	---	1944
1945	---	30.8 ON APR 11	---	---	1945
1946	---	50.1 ON APR 7	---	---	1946
1947	---	57.2 ON APR 17	---	---	1947
1948	---	117 ON MAY 8	---	---	1948
1949	---	234 B ON APR 11	---	---	1949
1950	---	107 ON MAY 11	---	---	1950
1951	---	123 R ON APR 28	---	---	1951
1952	---	36.5 ON MAY 2	0 ON OCT 8	---	1952
1953	---	35.7 ON AUG 18	---	---	1953
1954	---	53.2 ON JUL 29	2.55 B ON FEB 2	485 000	1954
1955	---	118 ON APR 21	1.13 B ON DEC 31	987 000	1955
1956	---	205 B ON APR 15	0.3118 ON MAR 23	748 000	1956
1957	---	24.1 B ON MAR 23	0.1868 ON FEB 2	155 000	1957
1958	---	31.1 ON APR 6	0.0038 ON DEC 16	82 900	1958
1959	---	14.2 B ON MAR 27	0.0038 ON JAN 1	39 200	1959
1960	263 AT 08:00 CST ON APR 12	225 ON APR 12	0.1848 ON DEC 1	400 000	1960
1961	7.14 AT 10:00 CST ON APR 7	5.81 ON APR 7	0.003 ON AUG 11	17 300R	1961
1962	---	65.1 B ON APR 18	0 B ON NOV 11	48 200	1962
1963	18.3 AT 23:00 CST ON JUN 29	14.2 ON JUN 30	0 B ON JAN 28	46 300	1963
1964	---	31.7 B ON APR 16	0.0178 ON JAN 20	110 000R	1964
1965	90.3 AT 02:30 CST ON JUL 22	75.3 B ON APR 12	0.0208 ON MAR 8	233 000	1965
1966	---	77.8 B ON MAR 21	0.0348 ON DEC 10	261 000	1966
1967	---	38.4 ON APR 21	0 ON SEP 8	108 000	1967
1968	8.13 AT 12:10 CST ON SEP 14	6.07 ON SEP 14	0 B ON FEB 18	61 900	1968
1969	326 AT 12:00 CST ON APR 22	323 ON APR 22	0.2278 ON APR 5	1 220 000	1969
1970	143 AT 22:07 CST ON APR 26	130 ON APR 26	0.4768 ON DEC 31	748 000	1970
1971	58.7 AT 13:15 CST ON APR 18	50.7 ON APR 18	0.3518 ON FEB 13	328 000	1971
1972	98.4 AT 24:00 CST ON APR 30	89.4 ON APR 30	0.5108 ON DEC 21	842 000	1972
1973	11.8 AT 13:53 CST ON MAY 27	11.6 ON MAY 27	0.4068 ON JAN 10	77 200	1973
1974	---	345 A ON APR 19	0.3458 ON JAN 21	1 260 000	1974
1975	259 AT 00:35 CST ON MAY 12	259 ON MAY 12	0.6048 ON FEB 10	1 840 000	1975
1976	785 B AT 00:00 CST ON APR 11 *	742 B ON APR 11 *	1.45 ON DEC 3	2 880 000	1976
1977	4.45 AT 22:30 CST ON MAY 4	3.23 ON MAY 5	0.1538 ON NOV 28	37 800	1977
1978	48.7 AT 09:34 CST ON APR 8	41.3 ON APR 8	0.1738 ON DEC 11	158 000	1978
1979	185 AT 04:30 CST ON MAY 28	181 ON MAY 28	0.2288 ON DEC 14	882 000	1979
1980	12.3 AT 18:00 CST ON APR 8	10.7 B ON APR 7	0.0828 ON JAN 5	68 000	1980
1981	14.5 AT 15:35 CST ON MAR 18	12.0 B ON MAR 18	0.2078 ON DEC 31	98 900	1981
1982	125 B AT 02:40 CST ON APR 15	118 B ON APR 15	0.0828 ON FEB 19	407 000	1982
1983	143 B AT 20:17 CST ON APR 7	121 B ON APR 8	0.6968 ON DEC 26	802 000	1983
1984	28.8 AT 07:27 CST ON JUN 3	26.7 ON JUN 3	0.2068 ON JAN 25	172 000	1984
				398 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

SOURIS RIVER NEAR COULTER - STATION NO. 05MP018

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0.870	0.024	0.112	0.488	0.418	0.483	0.507	0.455	0.485	0.885	---	1977
1978	0.800	0.884	0.380	17.8	7.71	1.83	8.14	7.08	4.47	0.802	0.883	0.882	4.02	1978
1979	0.715	1.35	4.28	23.8	181	104	28.8	5.40	0.886	0.878	0.188	0.003	27.8	1979
1980	0.188	1.18	0.881	3.84	4.38	1.07	0.888	1.12	1.30	3.87	2.88	2.15	1.98	1980
1981	1.18	0.883	4.84	7.38	3.73	4.87	1.82	1.21	1.11	1.00	0.825	0.071	2.37	1981
1982	0	0	0	27.7	80.8	17.8	3.30	3.88	4.78	8.84	8.00	1.70	10.4	1982
1983	1.81	3.18	28.8	87.4	80.1	8.44	8.10	8.10	13.4	8.84	3.45	0.883	18.4	1983
1984	0.727	0.888	4.30	3.70	24.2	13.2	4.04	2.40	1.42	1.52	2.08	0.841	4.86	1984
MEAN	0.712	1.18	4.48	18.8	37.7	18.7	8.41	3.31	3.48	2.88	3.33	0.328	8.88	MEAN

LOCATION - LAT 48 08 27 N
LONG 100 57 12 W
DRAINAGE AREA, 43 300 km^2
REGULATED

SOURIS RIVER NEAR COULTER - STATION NO. 05NF018

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	1.818 ON MAR 14	---	---	1977
1978	32.0 AT 11:41 CST ON APR 28	31.4 ON APR 28	0.2418 ON MAR 10	127 000	1978
1979	304 AT 13:30 CST ON MAY 31 *	186 ON MAY 31 *	0 B ON DEC 17 *	878 000	1979
1980	7.86 AT 17:16 CST ON APR 29	7.43 ON APR 25	0 B ON JAN 1	81 700	1980
1981	11.3 AT 01:16 CST ON MAR 13	10.8 B ON MAR 13	0 B ON DEC 24	74 800	1981
1982	87.0 AT 10:27 CST ON APR 29	85.7 ON APR 28	0 B ON JAN 1	328 000	1982
1983	78.4 AT 12:21 CST ON MAY 4	75.5 ON MAY 4	0.335 ON OCT 18	487 000	1983
1984	38.7 AT 08:57 CST ON MAY 30	38.5 ON MAY 30	0.105 ON APR 25	188 000	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		301 000	MEAN

SOURIS RIVER NEAR LAUDER - STATION NO. 05NG025

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	17.8	73.4	57.0	9.33	6.34	4.70	12.2	6.72	---	---	23.3	1983
1984	---	---	3.56	4.46	22.3	14.6	3.34	2.23	1.41	2.12	---	---	5.76	1984
MEAN	---	---	10.5	38.9	39.7	12.0	4.84	3.47	6.81	3.92	---	---	15.0	MEAN

LOCATION - LAT 49 34 00 N
LONG 100 46 37 W
REGULATED

SOURIS RIVER NEAR LAUDER - STATION NO. 05NG025

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1983	91.1 AT 05:15 CST ON APR 11 *	90.8 ON APR 11 *	0.500 ON OCT 23 *	491 000	1983
1984	37.3 AT 11:34 CST ON MAY 31	37.0 ON MAY 31	0.838 ON MAY 1	143 000	1984
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		317 000	MEAN

SOURIS RIVER NEAR MELITA - STATION NO. 05NF008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	0.005	0.047	0.029	4.53	1.84	0.877	0.588R	0.855	---	---	0.928R	1963
1965	---	---	0.026	3.61	11.6	17.6	5.30	5.11	7.34	5.16	---	---	7.25	1965
1966	---	---	4.76	16.7	34.8	6.77	1.84	1.01	0.543	0.585	---	---	7.26	1966
1967	---	---	0.131	9.83	14.0	3.24	0.654	0.488	0.470	0.733	---	---	3.88	1967
1968	---	---	0.310	0.233	0.146	0.422	0.421	0.829	8.33	5.09	---	---	1.70	1968
1969	---	---	0.172	139	138	51.0	15.0	14.6	1.24	0.898	---	---	44.7	1969
1970	---	---	1.05	19.6	84.9	80.1	36.9	10.2	0.226	0.408	---	---	28.6	1970
1971	---	---	1.58	22.7	38.4	11.6	9.48	6.71	1.51	2.81	---	---	12.1	1971
1972	---	---	17.0	77.7	55.8	23.5	17.6	3.27	2.68	3.88	---	---	26.1	1972
1973	---	---	1.32	0.570	5.44	1.75	3.70	1.07	2.21	3.26	---	---	2.43	1973
1974	---	---	2.36	68.1	137	100	27.7	3.36	2.14	1.78	---	---	46.2	1974
1975	---	---	---	---	---	---	---	10.5	5.15	21.0	---	---	---	1975
1976	---	---	12.6	268	212	73.6	26.5	16.7	8.78	1.76	---	---	67.8	1976
1977	---	---	0.886	0.186	0.040	0.480	0.534	0.606	0.585	0.480	---	---	0.480	1977
1978	---	---	0.439	16.9	8.21	1.66	5.08	8.41	3.57	0.743	---	---	5.47	1978
MEAN	---	---	3.03	54.0	50.8	25.8	10.8	5.67	3.90 R	3.36	---	---	19.3	MEAN

LOCATION - LAT 49 10 20 N
LONG 101 01 48 W
DRAINAGE AREA, 48 200 km^2
REGULATED

R - REVISED SINCE JAN 1980

SOURIS RIVER NEAR MELITA - STATION NO. 05NF008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	13.8 AT 02:45 CST ON JUN 26	13.4 ON JUN 26	0 ON MAR 1 *	20 600R	1963
1965	23.8 AT 17:30 CST ON JUN 26	23.7 ON JUN 26	0.0288 ON MAR 1	153 000	1965
1966	---	30.8 A ON MAY 6	0.386 ON OCT 31	184 000	1966
1967	24.9 AT 16:30 CST ON APR 19	24.3 ON APR 19	0 B ON MAR 1	77 400	1967
1968	---	7.52 ON SEP 9	0 A ON APR 22	36 100	1968
1969	---	308 A ON APR 17	0.0288 ON MAR 18	947 000	1969
1970	96.1 AT 23:51 CST ON JUN 7	94.3 ON JUN 5	0.008 ON OCT 8	884 000	1970
1971	---	46.7 A ON MAY 6	1.08 ON OCT 8	267 000	1971
1972	108 AT 17:07 CST ON APR 21 *	104 ON APR 21	1.43 B ON MAR 1	532 000	1972
1973	11.8 AT 08:07 CST ON MAY 24	11.7 ON MAY 23	0.487 ON APR 17	61 400	1973
1974	---	261 A ON APR 25	0.487 ON OCT 23	868 000	1974
1975	---	---	---	---	1975
1976	---	510 B ON APR 12 *	0.143 ON OCT 18	1 880 000	1976
1977	---	1.818 ON MAR 14	0.0078 ON MAY 3	9 740	1977
1978	38.8 AT 17:06 CST ON APR 28	38.3 ON APR 28	0.3348 ON MAR 10	118 000	1978
	A - MANUAL GAUGE (SEE REFERENCE INDEX)	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980	410 000R	MEAN

SOURIS RIVER NEAR WESTHOPE - STATION NO. 05NF012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1929	---	---	---	---	---	---	---	0.380	0.188	0.234	---	---	---	1929
1930	---	---	---	28.1	11.0	2.67	1.16	0.154	0.245	0.314	0.428	0.142	---	1930
1931	0.014	0.014	0.028	1.88	0.838	0.138	0.083	0	0	0.148	0.224	0.057	0.247	1931
1932	0.028	0.028	0.148	2.09	1.71	0.744	0.358	0.058	0	0	0.238	0.057	0.484	1932
1933	0.028	0.028	3.87	24.8	8.21	5.19	5.92	1.66	0.291	0.174	0.397	0.085	4.05	1933
1934	0.028	0.028	2.02	8.33	1.69	0.131	0.022	0	0	0	0	0	1.01	1934
1935	0	0	0.188	1.87	2.13	0.508	4.81	1.94	0.232	0.008	0	0	0.844	1935
1936	0	0	0	0.808	0	0.218	0.104	0	0	0	0	0	0.101	1936
1937	0	0	0	0.052	0	0	0	0	0	0	0	0	0.004	1937
1938	0	0	0.004	0.001	0	0.211	0	0.222	0.008	0	0	0	0.037	1938
1939	0	0	0.001	0.008	0	0.238	0	0.130	0.034	0.280	0	0	0.059	1939
1940	0	0	0	0.007	0.028	0.020	0.087	0.073	0.089	0.084	0.001	0	0.029	1940
1941	0	0	0	0	0.003	0.180	0.207	0.328	0.467	0.244	0.018	0	0.121	1941
1942	0	0	0.017	11.8	7.18	0.727	0.821	0.793	0.880	0.712	0.027	0	1.85	1942
1943	0	0	0.004	17.4	58.6	33.2	33.4	3.38	2.42	1.40	0.339	0.004	11.8	1943
1944	0	0.187	0.848	8.28	7.84	8.33	36.8	3.48	8.70	2.67	1.80	3.84	8.73	1944
1945	3.32	2.04	4.45	21.4	4.78	0.741	0.540	2.52	0.918	0.532	0.019	0	3.39	1945
1946	0	0	0.088	8.09	0.887	0.545	0.444	0.588	1.80	0.341	0.015	0	1.12	1946
1947	0.008	0.028	0.028	28.5	19.2	8.52	10.8	8.11	2.04	0.303	0.267	0.023	8.34	1947
1948	0.017	0.008	0.013	25.2	82.1	48.0	9.83	7.01	1.21	0.886	1.33	1.88	13.1	1948
1949	0.813	0.381	0.213	81.3	41.2	17.3	1.12	1.12	0.818	0.336	0.028	0.036	12.9	1949
1950	0.071	0.088	0.174	20.8	58.6	37.0	10.8	4.33	1.78	0.780	0.377	1.34	11.4	1950
1951	3.43	4.88	2.78	62.2	70.8	43.0	8.81	0.784	4.12	2.07	1.88	4.89	18.4	1951
1952	1.11	0.788	3.38	22.2	15.3	0.278	2.88	2.18	0.387	0.098	0.887	1.21	4.19	1952
1953	0.478	0.387	0.705	5.20	13.3	22.5	34.3	26.7	4.09	4.40	5.00	2.88	10.3	1953
1954	3.87	3.83	4.32	9.84	8.75	22.3	44.2	11.0	2.02	12.7	8.17	2.85	10.8	1954
1955	1.82	1.88	2.03	89.8	87.4	42.6	17.8	7.88	3.45	3.78	0.207	0.079	18.8	1955
1956	0.358	0.428	1.48	28.1	87.8	28.8	9.83	4.80	3.88	3.22	8.28	1.58	13.0	1956
1957	1.27	0.788	1.07	0.800	3.84	8.32	2.08	0.748	0.888	0.832	3.33	1.48	1.81	1957
1958	0.581	0.480	0.811	0.188	1.78	2.43	0.931	0.813	0.804	0.417	0.028	0.003	0.875	1958
1959	0.003	0.001	0.027	0.008	0.021	0.704	0.881	0.842	0.488	0.871	1.82	0.414	0.438	1959
1960	0.882	0.887	1.88	48.2	23.9	12.8	0.885	0.388	0.938	0.888	0.145	0.089	7.32	1960
1961	0.002	0.014	0.184	0.180	0.282	0.885	0.544	0.302	0.278	0.314	0.088	0.028	0.231	1961
1962	0	0	0	0.088	0.140	0.138	0.188	0.284	0.284	0.480	0.010	0.003	0.134	1962
1963	0.003	0.003	0.008	0.003	0.011	4.88	1.32	0.814	0.578	0.884	0.041	0	0.838	1963
1964	0	0	0.003	0.011	4.02	1.28	2.89	0.482	2.81	2.34	0.008	0.003	1.17	1964
1965	0.002	0.003	0.003	0.423	10.2	17.8	4.73	8.58	7.59	5.78	2.00	1.37	4.70	1965
1966	1.38	1.17	2.00	13.4	21.8	4.83	2.03	1.11	0.838	0.825	0.194	0.003	4.22	1966
1967	0.001	0	0.007	2.49	13.4	2.58	0.729	0.640	0.800	0.713	0.040	0.002	2.38	1967
1968	0	0	0.008	0.010	0.180	0.888	0.558	0.828	8.81	3.41	0.888	0.837	1.08	1968
1969	0.371	0.108	0.172	81.8	128	60.8	11.0	14.2	0.958	0.881	0.704	2.18	25.2	1969
1970	2.48	1.81	1.22	14.2	88.4	77.2	33.7	8.89	0.588	0.588	0.334	0.093	17.3	1970
1971	0.888	1.82	1.87	18.8	32.8	8.44	8.82	8.43	0.948	2.87	8.28	2.77	8.13	1971
1972	2.18	1.87	8.78	87.5	48.8	21.2	18.7	2.78	2.71	4.23	8.38	0.841	15.0	1972
1973	0.828	1.23	0.743	0.130	8.83	1.28	3.84	0.818	2.30	4.88	0.885	0.872	1.78	1973
1974	0.881	1.83	2.87	88.8	121	81.8	22.0	2.87	2.12	1.87	2.85	0.882	28.8	1974
1975	0.824	0.848	1.03	28.8	155	119	47.8	8.74	2.80	13.4	10.2	5.88	32.8	1975
1976	8.41	8.28	12.8	281	188	82.8	22.1	14.8	8.48	1.13	0.888	1.47	48.8	1976
1977	1.11	0.828	0.880	0.018	0.005	0.808	0.888	0.588	0.883	0.828	0.728	0.732	0.882	1977
1978	0.888	0.744	0.478	15.3	8.48	1.80	8.08	8.20	3.78	0.788	0.812	0.884	3.84	1978
1979	1.05	2.18	3.04	22.8	141	88.8	23.1	4.38	0.884	0.811	0.178	0.017	24.2	1979
1980	0.202	1.18	0.883	2.82	3.58	0.888	0.788	0.774	1.23	2.30	3.17	2.07	1.70	1980
1981	1.18	0.781	4.80	7.01	3.88	4.43	1.38	1.20	1.03	0.821	0.833	0.028	2.25	1981
1982	0	0	0	28.4	48.8	18.5	2.88	3.84	4.20	8.87	7.28	1.58	10.3	1982
1983	1.88	3.31	22.1	88.3	48.8	8.41	5.88	8.41	11.4	4.88	3.23	0.930	15.0	1983
1984	0.882	0.748	3.48	2.83	24.8	13.8	5.81	2.88	1.27	1.30	1.77	0.538	4.88	1984
MEAN	0.721	0.778	1.78	22.5	28.0	17.2	8.21	3.38	1.88	1.78	1.43	0.832	7.85	MEAN

LOCATION - LAT 48 88 47 N DRAINAGE AREA, 43 000 km² INTERNATIONAL GAUGING STATION
LONG 100 87 28 W REGULATED

SOURIS RIVER NEAR WESTHOPE - STATION NO. 05NF012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1929	---	---	---	---	1929
1930	---	---	---	---	1930
1931	---	3.36 B ON APR 8	0 ON JUL 20 *	7 780	1931
1932	---	4.19 ON MAY 4	0 ON AUG 17	14 400	1932
1933	---	32.0 ON APR 17	0.0288 ON JAN 1	128 000	1933
1934	---	14.8 ON APR 7	0 ON JUL 27	31 800	1934
1935	---	7.80 ON JUL 7	0 ON JAN 1	39 800	1935
1936	---	3.84 ON APR 14	0 ON JAN 1	3 200	1936
1937	---	0.255 ON APR 11	0 ON JAN 1	135	1937
1938	1.46 AT 12:00 CST ON JUN 18	1.19 ON JUN 18	0 ON JAN 1	1 180	1938
1939	0.821 ON OCT 23	0.785 ON OCT 21	0 ON JAN 1	1 850	1939
1940	---	0.388 ON OCT 13	0 ON JAN 1	825	1940
1941	1.02 AT 08:00 CST ON JUN 12	0.708 ON SEP 6	0 ON JAN 1	3 820	1941
1942	21.1 AT 19:30 CST ON APR 21	28.3 ON APR 22	0 B ON JAN 1	58 300	1942
1943	---	83.4 ON MAY 22	0 ON JAN 1	274 000	1943
1944	---	56.6 ON JUL 9	0 B ON JAN 8	213 000	1944
1945	---	29.4 ON MAR 31	0 B ON NOV 18	107 000	1945
1946	---	17.0 ON APR 8	0 B ON JAN 1	35 400	1946
1947	---	51.0 ON APR 19	0 ON JAN 1	200 000	1947
1948	---	82.1 ON APR 28	0 ON JAN 17	414 000	1948
1949	181 ON APR 18	178 ON APR 18	0.028 ON NOV 1	405 000	1949
1950	75.0 AT 22:00 CST ON MAY 17	74.5 ON MAY 17	0.0878 ON JAN 1	358 000	1950
1951	---	87.8 ON APR 29	0.084 ON NOV 7	516 000	1951
1952	---	40.2 ON APR 24	0.084 ON OCT 31	132 000	1952
1953	43.9 AT 13:00 CST ON AUG 13	43.6 ON AUG 13	0.0858 ON SEP 18	324 000	1953
1954	80.4 AT 13:00 CST ON JUL 13	49.8 ON JUL 14	0.823 ON SEP 21	341 000	1954
1955	98.1 AT 20:00 CST ON APR 14	97.1 ON APR 14	0.0268E ON DEC 8	523 000	1955
1956	86.1 AT 23:00 CST ON MAY 21	83.0 ON MAY 22	0.227E ON JAN 1	412 000	1956
1957	---	7.59 ON JUN 14	0.089 ON APR 21	87 100	1957
1958	15.9 AT 15:00 CST ON MAY 12	5.72 ON MAY 12	0 ON MAR 8	21 300	1958
1959	5.30 ON JUN 3	5.30 ON NOV 9	0.001E ON FEB 1	13 800	1959
1960	80.0 AT 09:00 CST ON APR 23	57.6 ON APR 23	0 ON DEC 28	232 000	1960
1961	---	0.736 ON JUN 2	0 ON JAN 1	7 300	1961
1962	5.88 AT 10:30 CST ON AUG 7	0.850 ON OCT 17	0 ON JAN 1	4 240	1962
1963	17.0 AT 11:30 CST ON JUN 24	15.0 ON JUN 23	0 ON MAR 8	20 100	1963
1964	---	14.7 ON MAY 18	0 ON JAN 1	37 000	1964
1965	24.5 AT 17:00 CST ON JUN 26	24.1 ON JUN 27	0 ON JAN 11	148 000	1965
1966	24.1 AT 03:00 CST ON MAY 3	24.0 ON MAY 3	0.001 ON DEC 17	133 000	1966
1967	25.2 AT 19:00 CST ON APR 20	24.2 ON APR 20	0 ON JAN 31	74 200	1967
1968	8.27 AT 09:00 CST ON SEP 8	7.84 ON SEP 8	0 ON JAN 1	33 000	1968
1969	178 AT 14:00 CST ON APR 22	178 ON APR 22	0.0268 ON MAR 16	784 000	1969
1970	88.3 AT 07:00 CST ON JUN 8	88.1 ON JUN 8	0.045 ON DEC 1	547 000	1970
1971	36.2 AT 03:00 CST ON APR 30	37.8 ON APR 30	0.046 ON JAN 1	287 000	1971
1972	86.7 ON APR 20	86.4 ON APR 17	0.510 ON DEC 12	474 000	1972
1973	12.6 ON MAY 20	12.4 ON MAY 20	0.011 ON APR 4	86 100	1973
1974	158 AT 21:00 CST ON APR 25	158 ON APR 25	0.538 ON DEC 4	837 000	1974
1975	190 AT 07:00 CST ON MAY 7	187 ON MAY 7	0.453 ON SEP 7	1 040 000	1975
1976	387 AT 16:00 CST ON APR 26 *	351 ON APR 26 *	0.037 ON OCT 15	1 480 000	1976
1977	---	1.56 B ON MAR 13	0.003 ON APR 16	17 700	1977
1978	24.0 AT 17:30 CST ON APR 22	22.0 ON APR 22	0.2839 ON MAR 9	121 000	1978
1979	187 AT 21:00 CST ON MAY 21	185 ON MAY 21	0.009 ON NOV 14	785 000	1979
1980	8.04 AT 17:00 CST ON APR 24	7.08 ON APR 29	0.0288 ON JAN 14	53 800	1980
1981	---	9.34 ON APR 24	0 ON DEC 9	71 100	1981
1982	---	57.1 ON APR 24	0 B ON JAN 1	335 000	1982
1983	76.8 ON APR 13	76.5 ON APR 14	0.138 ON OCT 19	473 000	1983
1984	31.1 ON MAY 30	31.1 ON MAY 30	0.127 ON APR 25	158 000	1984
				238 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOUTH SEAL RIVER ABOVE FOX LAKE - STATION NO. 05GA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1985	---	---	---	---	---	---	---	---	---	57.8	50.3	32.5	---	1985
1986	---	---	---	24.4	177	380	178	88.5	50.0	27.4	25.6	24.0	---	1986
1987	21.1	18.4	12.3	---	---	---	203	83.8	51.7	---	---	---	---	1987
1988	---	14.3	14.8	---	---	---	134	77.5	83.4	126	95.8	83.9	---	1988
1989	36.2	23.4	21.3	21.8	30.6	87.9	98.1	81.6	270	173	68.8	49.8	77.2	1989
1970	32.8	21.0	16.7	22.0	88.0	185	97.1	83.1	82.0	84.7	138	78.0	80.8	1970
1971	37.2	26.1	21.3	---	---	180	288	220	248	263	180	104	---	1971
1972	83.6	31.1	24.3	23.4	208	234	185	129	137	115	88.8	82.4	108	1972
1973	36.8	29.4	26.1	30.7	147	118	78.0	47.4	37.0	36.0	32.0	24.8	52.9	1973
1974	19.8	17.0	15.0	---	---	---	88.8	127	110	77.8	54.4	40.7	---	1974
1975	31.8	21.1	15.8	28.8	---	---	294	233	148	112	79.8	49.8	---	1975
1976	33.8	25.4	23.2	27.7	181	170	115	71.8	127	132	88.8	61.7	67.8	1976
1977	38.8	30.0	27.8	61.8	213	230	232	172	124	81.3	52.7	38.1	111	1977
1978	18.8	18.8	18.8	18.8	---	---	129	218	278	208	108	83.1	---	1978
1979	27.8	18.8	18.8	18.8	---	---	82.1	72.3	72.8	84.4	82.8	38.8	---	1979
1980	24.8	18.7	13.8	30.8	122	178	123	278	341	192	107	80.8	122	1980
1981	28.3	25.8	24.8	24.8	128	148	72.8	38.8	37.4	38.8	35.3	19.8	81.3	1981
1982	12.7	10.8	8.74	8.77	143	188	108	83.8	78.8	81.4	38.7	27.8	83.1	1982
1983	23.8	18.8	18.8	12.7	18.8	---	184	132	367	288	128	84.3	---	1983
1984	45.8	33.8	23.8	78.8	218	188	118	88.7	121	78.3	48.7	28.8	88.8	1984
MEAN	30.8	22.8	18.8	28.8	138	187	148	120	148	117	88.1	47.1	84.3	MEAN

LOCATION - LAT 58 08 35 N DRAINAGE AREA, 12 200 km^2
LONG 98 13 40 W NATURAL FLOW

SOUTH SEAL RIVER ABOVE FOX LAKE - STATION NO. 05BA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	---	---	---	1965
1966	---	---	---	---	1966
1967	---	632 ON JUN 3 *	---	---	1967
1968	---	---	---	---	1968
1969	---	---	---	---	1969
		323 ON SEP 7	21.0 B ON FEB 28	2 430 000	1969
1970	---	244 ON JUN 5	18.7 B ON MAR 3	2 850 000	1970
1971	374 AT 18:07 CST ON JUL 13	371 ON JUL 14	---	---	1971
1972	327 AT 18:17 CST ON MAY 18	328 ON MAY 18	21.8 B ON APR 11	3 400 000	1972
1973	336 AT 17:30 CST ON MAY 14	326 ON MAY 14	19.4 B ON APR 29	1 870 000	1973
1974	---	---	---	---	1974
1975	382 AT 18:03 CST ON JUL 3	380 ON JUL 3	15.2 B ON MAR 21	---	1975
1976	234 AT 13:00 CST ON MAY 21	232 ON MAY 21	21.8 B ON MAR 16	2 780 000	1976
1977	276 AT 17:36 CST ON JUL 24	276 ON JUL 22	19.9 B ON DEC 31	3 490 000	1977
1978	386 AT 14:12 CST ON AUG 26	380 ON AUG 24	18.6 B ON JAN 13	---	1978
1979	---	---	8.548 ON APR 1	---	1979
1980	604 AT 17:20 CST ON AUG 29 *	600 ON AUG 29	12.6 B ON MAR 23	3 880 000	1980
1981	245 AT 18:17 CST ON MAY 23	243 ON MAY 23	15.2 B ON DEC 31	1 820 000	1981
1982	235 AT 14:10 CST ON JUN 13	230 ON JUN 14	8.498 ON MAR 25 *	1 980 000	1982
1983	---	---	11.0 B ON MAY 13	---	1983
1984	312 ON APR 29	304 ON APR 29	15.4 B ON APR 10	2 780 000	1984
				2 880 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOUTH TOBACCO CREEK NEAR MIAMI - STATION NO. 05DF017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	---	---	---	---	0.040	0	0	0	---	---	---	1983
1984	---	---	0	0.634	0.082	0.030	0.027	0.033	0.388	0.039	---	---	0.148	1984
1985	---	---	0	1.17	0.414	0.080	0.023	0	0.010	0.007	---	---	0.211	1985
1986	---	---	0.780	0.784	0.728	0.054	0.188	0.009	0	0	---	---	0.316	1986
1987	---	---	0.200	1.48	0.288	0.022	0.080	0	0	0	---	---	0.285	1987
1988	---	---	0.088	0.070	0.430	0.051	0.843	1.48	0.308	0.188	---	---	0.403	1988
1989	---	---	0	2.20	0.284	0.488	0.418	0.048	0.003	0.011	---	---	0.418	1989
1970	---	---	0	2.88	1.87	0.128	0.018	0	0	0	---	---	0.584	1970
1971	---	---	0	1.58	0.108	0.177	0.188	0.001	0.138	0.304	---	---	0.304	1971
1972	---	---	0.637	1.38	0.208	0.028	0.007	0.001	0	0	---	---	0.308	1972
1973	---	---	0.118	0.028	0.004	0.007	0.018	0.001	0	0	---	---	0.022	1973
1974	---	---	0	2.58	1.83	0.121	0.004	0	0	0	---	---	0.535	1974
1975	---	---	0	0.575	0.193	0.388	0.027	0	0	0	---	---	0.131	1975
1976	---	---	0.048	1.72	0.073	0.004	0	0	0	0	---	---	0.228	1976
1977	---	---	0	0.008	0.092	0.010	0	0	0.108	0.008	---	---	0.028	1977
1978	---	---	0.047	1.27	0.321	0.177	0.128	0	0.024	0.008	---	---	0.245	1978
1979	---	---	0	3.42	1.31	0.288	0.028	0.007	0	0	---	---	0.508	1979
1980	---	---	0	0.303	0.002	0	0	0	0	0	---	---	0.037	1980
1981	---	0.088	0.047	0.010	0.010	0.013	0.001	0.012	0	0	---	---	0.012	1981
1982	---	---	0.112	0.302	0.024	0.004	0	0	0	0.008	---	---	0.058	1982
1983	---	---	0.421	0.841	0.031	0.048	0.003	0	0	0	---	---	0.187	1983
1984	---	---	0.108	0.051	0.091	0.127	0.003	0	0	0.002	---	---	0.047	1984
MEAN	---	0.088	0.133	1.10	0.374	0.088	0.082	0.071	0.044	0.028	---	---	0.238	MEAN

LOCATION - LAT 49 22 50 N DRAINAGE AREA, 73.3 km^2
LONG 96 14 55 W NATURAL FLOW

REMARKS - FORMERLY PUBLISHED UNDER STA. NO.05DB028. 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE .816 AND 0 M3/S OCCURRED IN FEB

SOUTH TOBACCO CREEK NEAR MIAMI - STATION NO. 05DF017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1983	---	---	0 ON JUL 31 *	---	1983
1984	13.1 ON SEP 1	5.47 ON SEP 1	0 ON MAR 1	3 100	1984
1985	---	7.93 B ON APR 13	0B ON MAR 1	4 470	1985
1986	14.6 AT 01:30 CST ON MAY 8	8.38 ON MAY 8	0B ON MAR 1	8 880	1986
1987	24.4 AT 18:00 CST ON APR 20	15.0 ON APR 20	0B ON MAR 1	5 400	1987
1988	24.8 AT 07:30 CST ON AUG 24 *	18.8 ON AUG 24	0B ON MAR 1	8 530	1988
1989	---	10.3 B ON APR 12	0B ON MAR 1	4 880	1989
1970	13.4 AT 03:50 CST ON APR 29	13.8 ON APR 29	0 ON MAR 1	11 700	1970
1971	---	11.4 B ON APR 6	0 ON MAR 1	8 420	1971
1972	---	8.08 B ON APR 8	0B ON MAR 1	8 480	1972
1973	---	0.2589 ON MAR 11	0B ON MAR 1	488	1973
1974	17.8 AT 01:12 CST ON MAY 31	14.8 ON APR 17	0B ON MAR 1	11 300	1974
1975	14.3 AT 14:20 CST ON JUN 28	4.11 ON JUN 28	0B ON MAR 1	2 770	1975
1976	9.84 AT 23:27 CST ON APR 4	8.20 ON APR 5	0B ON MAR 1	4 780	1976
1977	1.70 AT 06:05 CST ON MAY 18	0.823 ON MAY 18	0 ON MAR 1	888	1977
1978	11.8 AT 02:25 CST ON MAY 28	8.58 ON APR 6	0B ON MAR 1	5 180	1978
1979	---	20.0 E ON APR 15 *	0B ON MAR 1	12 900	1979
1980	2.05 AT 23:38 CST ON APR 5	1.58 ON APR 5	0B ON MAR 1	781	1980
1981	1.30 AT 06:45 CST ON JUN 24	0.3878 ON MAR 15	0 ON MAR 1	248	1981
1982	3.62 AT 23:07 CST ON APR 11	3.43 ON APR 13	0B ON MAR 1	1 180	1982
1983	11.2 AT 20:57 CST ON MAR 30	4.48 ON APR 7	0B ON MAR 1	3 830	1983
1984	3.80 AT 03:30 CST ON JUN 22	1.68 ON JUN 22	0B ON MAR 1	884	1984
				5 080	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOUTH TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1984	---	---	0	0.823	0.038	0.020	---	---	---	---	---	---	---	1984
1985	---	---	0	1.55	0.818	0.140	0.106	0	0.028	0	---	---	0.302	1985
1986	---	---	0.401	1.32	1.27	0.048	0.882	0.037	0	0	---	---	0.495	1986
1987	---	---	0.187	1.76	0.484	0.030	0.471	0	0	0	---	---	0.381	1987
1988	---	---	0.118	0.148	0.575	0.051	0.825	2.24	0.510	0.157	---	---	0.557	1988
1989	---	---	0	4.36	0.389	0.529	1.12	0.108	0.018	0.010	---	---	0.810	1989
1970	---	---	0	5.63	2.48	0.184	0.034	0	0	0	---	---	1.03	1970
MEAN	---	---	0.101	2.20	0.828	0.140	0.841	0.388	0.092	0.028	---	---	0.593	MEAN

LOCATION - LAT 49 24 59 N DRAINAGE AREA, 135 km²
LONG 98 09 38 W NATURAL FLOW

SOUTH TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1984	---	---	0B ON MAR 1 *	---	1984
1985	---	13.0B ON APR 13	0B ON MAR 1	8 400	1985
1986	16.6 AT 04:30 CST ON MAY 5	12.0 ON MAY 5	0B ON MAR 1	10 500	1986
1987	---	17.4B ON APR 21	0B ON MAR 1	7 820	1987
1988	---	18.1 ON AUG 26	0B ON MAR 1	11 800	1988
1989	---	20.0 ON APR 11	0B ON MAR 1	17 200	1989
1970	26.6 AT 05:30 CST ON APR 26 *	21.1 ON APR 26 *	0B ON MAR 1	21 700	1970
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		12 500	MEAN

SPRAGUE CREEK NEAR SPRAGUE - STATION NO. 05OD031

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1928	---	---	---	---	---	---	---	---	---	0.818	0.524	0.088	---	1928
1929	0.057	0.028	0.343	1.18	1.48	1.80	0.823	0.042	0.034	0.088	0.174	---	---	1929
1930	---	---	---	2.36	10.3	2.83	5.88	0.278	0.043	0.184	0.780	---	---	1930
1931	---	---	---	2.54	2.28	0.787	0.388	0.078	0.089	0.220	---	---	---	1931
1932	---	---	---	5.34	3.82	1.08	1.11	0.287	0.421	1.09	1.82	---	---	1932
1933	---	---	---	7.80	3.87	2.08	0.072	0.013	0.028	0.088	---	---	---	1933
1934	---	---	---	0.457	0.348	0.380	0.074	0.028	0.011	0.133	---	---	---	1934
1935	---	---	---	2.03	2.42	0.884	0.881	0.940	0.414	0.285	---	---	---	1935
1936	---	---	---	4.83	3.18	0.880	0.037	0.009	0.088	0.038	0.032	---	---	1936
1937	---	---	---	3.48	8.01	2.81	8.83	2.45	0.449	0.337	---	---	---	1937
1938	---	---	1.08	2.71	8.24	1.88	0.214	0.038	0.015	0.029	0.038	---	---	1938
1939	---	---	---	---	0.198	0.477	0.048	0.029	0.022	---	---	---	---	1939
1940	---	---	---	0.808	0.471	0.127	0.044	0.028	0.032	0.080	0.233	0.078	---	1940
1941	0.051	0.044	0.040	5.32	1.12	4.82	0.388	0.038	11.8	7.33	1.14	0.180	2.87	1941
1942	0.032	0.032	2.84	5.40	5.78	1.80	0.280	2.84	10.5	1.18	0.388	0.087	2.82	1942
1943	0.088	0.082	0.078	8.78	8.82	8.82	1.88	0.383	0.709	0.248	0.278	0.074	2.28	1943
1944	0.038	0.018	0.038	2.74	3.18	12.2	1.80	2.48	3.88	0.885	3.08	0.388	2.83	1944
1945	0.088	0.072	5.48	7.80	3.83	1.80	2.82	1.80	5.84	2.38	0.788	0.180	2.74	1945
1946	0.083	0.080	2.78	4.08	3.08	0.885	0.830	0.030	0.088	0.203	0.187	0.087	1.00	1946
1947	0.084	0.018	0.021	1.48	2.48	8.88	0.821	0.784	0.788	2.00	0.872	0.184	1.84	1947
1948	0.088	0.070	0.118	8.87	4.43	0.740	2.08	2.83	0.132	0.088	0.138	0.088	1.70	1948
1949	0.081	0.048	0.082	4.88	3.18	0.828	0.182	0.220	0.033	0.824	0.787	0.112	0.814	1949
1950	0.084	0.088	0.070	5.88	20.1	4.32	2.88	0.318	4.88	3.74	0.708	0.188	3.80	1950
1951	0.088	0.088	0.182	8.38	4.82	0.778	0.088	0.188	0.528	0.828	0.310	0.037	1.18	1951
1952	0.018	0.042	0.070	0.848	0.338	0.371	0.831	0.104	0.028	0.027	0.051	0.028	0.220	1952
1953	0.028	0.024	0.217	0.788	1.42	3.01	1.00	0.108	0.222	0.208	0.188	0.113	0.810	1953
1954	0.113	0.048	0.103	4.81	8.88	3.80	0.331	0.108	0.271	0.158	0.148	0.104	1.27	1954
1955	0.087	0.050	0.048	8.88	2.77	8.87	0.887	0.088	0.340	1.01	0.428	0.110	1.80	1955
1956	0.085	0.082	0.108	7.13	7.88	2.08	8.24	1.38	2.88	0.788	3.08	0.182	2.88	1956
1957	0.042	0.047	1.18	3.88	4.88	8.08	3.80	0.427	0.701	1.08	0.758	0.087	1.87	1957
1958	0.047	0.121	0.287	0.380	0.314	0.227	2.84	0.280	0.101	0.413	0.834	0.228	0.487	1958
1959	0.105	0.048	0.208	4.17	8.18	4.80	1.18	0.478	0.428	2.74	0.852	0.188	1.77	1959
1960	0.080	0.050	0.045	8.88	3.07	2.18	0.883	0.311	0.088	0.128	0.384	0.082	1.18	1960
1961	0.035	0.038	0.484	0.988	1.48	0.283	0.021	0.003	0.034	0.071	0.072	0.030	0.288	1961
1962	0.014	0.010	0.025	1.88	8.81	8.27	1.33	4.18	1.18	0.818	0.888	0.288	2.08	1962
1963	0.018	0.018	0.536	7.70	4.28	4.81	0.878	0.080	0.023	0.033	0.038	0.021	1.81	1963
1964	0.008	0.008	0.018	1.81	3.80	4.47	1.84	0.230	2.04	3.48	0.787	0.070	1.84	1964
1965	0.044	0.035	0.051	10.8	10.8	4.88	5.71	0.488	2.80	4.82	1.88	0.808	3.88	1965
1966	0.283	0.113	1.31	17.8	11.8	3.17	1.20	0.387	0.482	0.282	0.171	0.082	3.08	1966
1967	0.038	0.008	0.208	10.8	8.77	0.881	0.788	0.080	0.017	0.037	0.038	0.038	1.87	1967
1968	0.018	0.018	0.788	1.81	1.31	7.83	3.88	4.84	2.22	1.47	0.788	0.184	2.08	1968
1969	0.048	0.038	0.132	11.8	4.17	8.27	0.834	0.703	0.182	0.843	0.408	0.098	2.02	1969
1970	0.048	0.044	0.088	8.18	14.8	7.82	0.888	0.184	0.282	0.371	0.887	0.188	2.74	1970
1971	0.081	0.047	0.082	4.88	2.80	1.83	1.08	0.281	0.178	0.703	1.88	0.188	1.14	1971
1972	0.070	0.032	0.314	8.48	3.81	0.808	0.081	0.088	0.330	0.438	0.441	0.088	1.07	1972
1973	0.028	0.032	0.822	0.781	1.13	1.03	0.778	1.88	2.88	3.44	0.870	0.282	1.12	1973
1974	0.088	0.088	0.083	18.0	13.4	2.82	0.188	2.23	1.22	0.883	0.821	0.108	3.14	1974
1975	0.088	0.088	0.084	8.38	8.88	3.28	1.34	0.138	0.188	0.141	0.182	0.081	1.38	1975
1976	0.048	0.080	0.131	4.01	1.33	1.82	0.887	0.047	0.018	0.028	0.031	0.008	0.884	1976
1977	0.007	0.004	0.038	0.288	0.174	0.280	0.181	0.031	0.848	0.878	0.887	0.280	0.311	1977
1978	0.088	0.048	0.080	8.47	3.88	0.840	1.04	0.207	0.200	0.118	0.082	0.084	1.28	1978
1979	0.037	0.028	0.128	8.80	7.28	2.14	0.188	0.071	0.084	0.048	0.088	0.040	1.82	1979
1980	0.020	0.028	0.048	0.818	0.083	0.003	0.001	0.078	0.084	0.311	0.308	0.083	0.188	1980
1981	0.028	0.078	0.272	0.202	0.471	3.41	0.808	0.708	1.88	3.47	1.30	0.408	1.08	1981
MEAN	0.088	0.048	0.483	4.88	4.88	2.80	1.38	0.888	1.17	0.888	0.823	0.142	1.88	MEAN

LOCATION - LAT 48 58 33 N, LONG 88 38 43 W DRAINAGE AREA, 388 km² NATURAL FLOW INTERNATIONAL GAUGING STATION

REMARKS - FORMERLY PUBLISHED UNDER STA. NO. 05ODOO3

SPRAGUE CREEK NEAR SPRAGUE - STATION NO. 05DD031

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1928	---	---	---	---	1928
1929	4.81 AT 08:00 CST ON MAY 30	4.87 ON MAY 30	---	---	1929
1930	28.4 AT 14:00 CST ON MAY 13	28.0 ON MAY 13	0 B ON APR 1 *	---	1930
1931	4.87 B ON APR 8	4.25 B ON APR 8	---	---	1931
1932	11.5 B ON APR 14	10.0 B ON APR 13	---	---	1932
1933	18.4 AT 08:00 CST ON APR 20	18.4 ON APR 20	---	---	1933
1934	0.7358 AT 13:00 CST ON APR 7	0.880 ON JUN 24	0 ON AUG 8	---	1934
1935	---	---	---	---	1935
1936	17.3 AT 23:00 CST ON APR 20	16.8 ON APR 21	---	---	1936
1937	44.2 AT 03:00 CST ON JUL 17	41.8 ON JUL 17	---	---	1937
1938	---	---	---	---	1938
1939	0.880 AT 08:30 CST ON JUN 4	0.783 ON JUN 4	0 ON JUL 30	---	1939
1940	2.04 B ON APR 30	1.84 B ON APR 18	---	---	1940
1941	53.2 AT 10:30 CST ON SEP 28	52.4 ON SEP 28	0.0038 ON DEC 31	84 200	1941
1942	56.8 AT 18:00 CST ON SEP 1	55.5 ON SEP 1	0 B ON JAN 1	78 700	1942
1943	---	22.8 ON APR 10	0.0408 ON DEC 22	71 800	1943
1944	30.8 AT 18:00 CST ON JUN 8	30.0 ON JUN 7	0.0118 ON FEB 8	78 800	1944
1945	30.0 AT 20:00 CST ON MAR 26	27.4 ON MAR 26	0.0578 ON FEB 8	88 400	1945
1946	8.52 B ON MAR 23	8.50 B ON MAR 23	0.014 ON AUG 26	31 800	1946
1947	41.8 AT 08:00 CST ON JUN 12	39.4 ON JUN 12	0 B ON FEB 22	48 400	1947
1948	28.6 AT 01:00 CST ON APR 21	27.1 ON APR 21	0.048 ON OCT 5	53 800	1948
1949	11.8 AT 01:00 CST ON APR 15	11.4 ON APR 15	0.023 ON SEP 9	26 800	1949
1950	41.8 R ON MAY 12	38.8 E ON MAY 11	0.0408 ON FEB 28	114 000	1950
1951	---	11.0 ON MAY 2	0.0148 ON DEC 29	37 400	1951
1952	1.85 AT 07:00 CST ON JUL 4	1.83 ON JUL 4	0.0148 ON JAN 1	5 870	1952
1953	6.88 AT 23:00 CST ON JUN 3	6.20 ON JUN 4	0.0238 ON JAN 17	19 200	1953
1954	14.8 AT 20:00 CST ON APR 30	14.4 ON MAY 1	0.031 ON AUG 8	38 800	1954
1955	15.8 AT 10:30 CST ON JUN 8	15.4 ON JUN 8	0.011 ON SEP 8	47 200	1955
1956	24.4 R AT 23:00 CST ON JUL 5	21.8 ON JUL 6	0.0428 ON JAN 27	83 800	1956
1957	11.8 AT 23:00 CST ON JUN 15	11.6 ON JUN 16	0.0238 ON JAN 17	59 000	1957
1958	4.87 AT 07:00 CST ON JUL 10	4.84 ON JUL 8	0.0268 ON JAN 24	15 700	1958
1959	18.8 AT 19:00 CST ON MAY 7	18.5 ON MAY 7	0.0318 ON MAR 11	55 700	1959
1960	20.0 AT 17:00 CST ON APR 15	19.7 ON APR 16	0.040 ON SEP 23	37 200	1960
1961	3.26 B AT 20:10 CST ON MAR 24	2.83 B ON MAR 26	0 ON AUG 8	9 390	1961
1962	24.4 AT 03:00 CST ON MAY 25	23.8 ON MAY 25	0 B ON JAN 30	85 800	1962
1963	20.0 AT 13:00 CST ON APR 10	19.5 ON APR 10	0.0038 ON JAN 31	47 800	1963
1964	13.2 AT 00:00 CST ON JUN 20	12.8 ON JUN 20	0.0038 ON FEB 25	48 700	1964
1965	26.4 AT 12:00 CST ON MAY 7	24.0 ON APR 15	0.0288 ON FEB 2	112 000	1965
1966	26.4 AT 02:30 CST ON APR 18	25.1 ON APR 18	0.0488 ON DEC 31	87 200	1966
1967	31.1 AT 23:00 CST ON APR 22	30.0 ON APR 22	0.0038 ON FEB 12	49 600	1967
1968	24.4 AT 15:00 CST ON JUN 11	23.8 ON JUN 11	0.0178 ON JAN 16	65 100	1968
1969	24.8 AT 02:30 CST ON APR 13	24.3 ON APR 13	0.0268 ON FEB 8	63 900	1969
1970	33.4 AT 10:00 CST ON APR 26	32.8 ON APR 26	0.037 ON SEP 8	88 500	1970
1971	8.74 ON APR 19	8.78 ON APR 20	0.0408 ON FEB 16	38 100	1971
1972	13.5 AT 05:00 CST ON APR 23	13.4 ON APR 22	0.0238 ON FEB 10	33 800	1972
1973	10.5 AT 03:00 CST ON SEP 26	10.4 ON SEP 26	0.0148 ON JAN 8	35 400	1973
1974	72.5 ON APR 22 *	70.2 ON APR 22 *	0.018 ON JUL 29	89 100	1974
1975	13.8 AT 10:30 CST ON APR 28	13.7 ON APR 28	0.0488 ON MAR 11	43 800	1975
1976	8.38 AT 05:00 CST ON JUN 28	8.24 ON JUN 28	0 B ON DEC 6	20 700	1976
1977	2.83 AT 14:30 CST ON SEP 27	2.75 ON SEP 27	0.0038 ON FEB 16	9 820	1977
1978	18.6 AT 23:00 CST ON APR 18	17.8 ON APR 18	0.0378 ON MAR 8	39 600	1978
1979	27.3 AT 18:30 CST ON APR 20	26.6 ON APR 22	0.020 ON SEP 21	51 200	1979
1980	8.24 AT 03:00 CST ON APR 7	4.81 B ON APR 7	0 ON JUL 10	5 030	1980
1981	8.83 AT 17:30 CST ON JUN 16	7.73 ON JUN 16	0.0228 ON JAN 28	34 200	1981
				52 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

STEEPROCK RIVER NEAR MAFEKING - STATION NO. 05LF001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	1.33	7.59	12.8	3.86	3.30	3.65	3.18	2.83	---	---	1954
1955	---	---	1.19	4.83	10.2	2.37	1.59	0.418	0.391	0.887	---	---	2.70	1955
1956	---	---	0.612	0.783	6.89	4.21	3.38	0.853	0.797	0.776	---	---	2.52	1956
1957	---	---	0.986	2.05	7.91	2.85	0.807	0.575	1.67	0.881	---	---	2.02	1957
1958	---	---	0.483	2.42	2.77	1.70	11.7	0.853	1.69	1.55	---	---	2.96	1958
1959	---	---	---	1.47	4.07	7.70	2.80	0.879	6.48	3.34	---	---	---	1959
1960	---	---	0.874	2.10	6.52	4.29	1.41	1.09	1.04	1.26	---	---	2.21	1960
1961	---	---	0.500	1.02	2.38	0.795	0.237	0.254	0.256	0.283	---	---	0.710	1961
1962	---	---	0.982	1.04	4.31	0.825	0.189	0.173	1.06	0.515	---	---	1.02	1962
1963	---	---	0.274	2.32	3.70	5.26	1.88	0.785	0.902	0.577	---	---	1.95	1963
1964	---	---	---	1.84	7.74	2.23	1.90	4.01	3.50	2.27	---	---	---	1964
1965	---	---	0.378	1.16	11.5	5.05	1.75	1.09	4.95	3.02	---	---	3.82	1965
1967	---	---	0.744	1.38	10.7	4.39	2.05	1.58	0.673	0.959	---	---	2.84	1967
1968	---	---	0.315	1.08	5.00	5.87	8.44	5.73	2.88	2.97	---	---	4.95	1968
1969	---	---	0.756	2.86	2.15	1.85	1.73	1.44	1.93	5.02	---	---	2.19	1969
1970	---	---	0.486	1.07	7.38	4.25	5.02	1.42	1.40	3.76	---	---	3.11	1970
1971	---	---	0.778	2.96	5.07	4.09	3.17	1.70	2.19	3.13	---	---	2.88	1971
1972	---	---	0.735	2.33	5.81	2.82	2.88	1.17	0.884	0.828	---	---	2.84	1972
1973	---	---	0.537	0.860	4.02	11.5	3.71	1.87	1.84	1.61	---	---	3.17	1973
1974	---	---	0.323	2.52	11.0	4.36	2.79	1.46	3.39	2.28	---	---	3.82	1974
1975	---	---	0.880	1.51	8.18	5.36	2.48	4.61	4.60	3.60	---	---	3.84	1975
1976	---	---	0.877	2.28	1.88	8.26	2.08	0.887	0.886	0.850	---	---	3.13	1976
1977	---	---	0.850	2.87	2.41	0.802	2.41	5.70	5.76	4.36	---	---	3.24	1977
1978	---	---	0.801	1.76	4.98	1.78	1.07	0.802	1.78	3.42	---	---	2.02	1978
1979	---	---	0.854	1.26	10.1	6.81	2.88	1.78	1.42	1.20	---	---	3.24	1979
1980	---	---	0.830	3.14	1.39	0.808	0.784	3.20	2.82	2.34	---	---	1.88	1980
1981	---	---	0.615	1.28	1.98	2.98	3.78	1.40	1.71	3.29	---	---	2.13	1981
1982	---	---	0.883	1.48	3.88	3.61	8.02	2.15	1.48	1.73	---	---	3.48	1982
1983	---	---	0.882	1.82	8.58	8.28	8.05	2.48	3.48	2.38	---	---	4.32	1983
1984	---	---	0.902	4.48	8.88	7.50	3.07	1.83	2.18	8.32	---	---	4.48	1984
MEAN	---	---	0.881	1.98	6.08	4.80	3.08	1.95	2.34	2.27	2.83	---	2.74	MEAN

LOCATION - LAT 52 43 40 N LONG 101 08 45 W

DRAINAGE AREA, 300 km²
REGULATED SINCE 1958

STEEPROCK RIVER NEAR MAFEKING - STATION NO. 05LF001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	80.7 ON JUN 9	---	---	1954
1955	---	46.4 ON MAY 8	0.085 ON SEP 13	87 200	1955
1956	---	19.2 ON MAY 23	0.227 ON AUG 28	83 400	1956
1957	---	15.2 ON MAY 7	0.0578 ON MAR 11	42 800	1957
1958	---	138 ON JUL 8 *	0.3048 ON MAR 1	82 800	1958
1959	---	89.8 ON SEP 2	---	---	1959
1960	---	17.5 ON MAY 14	0.725 ON AUG 29	48 700	1960
1961	---	4.80 ON MAY 18	0.184 ON JUL 9	18 000	1961
1962	---	7.42 ON MAY 18	0 B ON MAR 1 *	21 600	1962
1963	---	13.2 ON JUN 12	0.1228 ON MAR 10	41 200	1963
1964	---	80.9 ON MAY 7	---	---	1964
1965	---	83.8 B ON MAY 8	0.3408 ON MAR 23	76 700	1965
1967	---	38.2 ON MAY 28	0.808 ON SEP 1	80 100	1967
1968	---	74.5 ON JUL 21	0.1338 ON MAR 1	88 300	1968
1969	---	19.1 ON OCT 3	0.742 ON AUG 15	48 400	1969
1970	---	18.5 ON OCT 28	0.4888 ON MAR 1	88 800	1970
1971	---	23.4 ON JUN 8	0.714 ON SEP 11	81 000	1971
1972	---	15.7 ON MAY 13	0.886 ON SEP 11	83 700	1972
1973	84.3 AT 22:44 CST ON JUN 19 *	58.8 ON JUN 19	0.4758 ON MAR 1	87 200	1973
1974	82.1 AT 01:00 CST ON MAY 22	38.8 ON MAY 22	0.2868 ON MAR 1	74 800	1974
1975	---	23.7 A ON SEP 18	0.5728 ON APR 8	77 200	1975
1976	69.8 AT 00:35 CST ON JUN 14	56.8 ON JUN 13	0.468 ON OCT 1	44 800	1976
1977	32.8 AT 18:35 CST ON AUG 10	20.8 ON AUG 10	0.380 ON JUN 28	88 800	1977
1978	13.8 AT 20:50 CST ON MAY 3	12.1 ON MAY 3	0.521 ON AUG 31	42 800	1978
1979	48.5 AT 12:04 CST ON MAY 27	38.4 ON MAY 27	0.8198 ON MAR 1	88 800	1979
1980	30.7 AT 04:35 CST ON AUG 8	11.8 ON APR 22	0.381 ON AUG 2	38 400	1980
1981	35.8 AT 10:58 CST ON JUL 16	23.3 ON JUL 16	0.4288 ON MAR 1	45 200	1981
1982	67.3 AT 16:52 CST ON JUL 17	30.3 ON JUL 16	0.6108 ON APR 1	52 000	1982
1983	37.7 AT 08:02 CST ON JUN 3	31.7 ON JUN 3	0.8908 ON MAR 1	81 500	1983
1984	48.1 AT 04:30 CST ON MAY 17	31.4 ON MAY 17	0.6878 ON MAR 1	88 100	1984
				58 100	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

STONY CREEK NEAR BEDE - STATION NO. 05NE004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	0.025	---	---	---	---	---	---	---	---	1936
1965	---	---	0	1.35	0.085	0.087	0.005	0.104	0.157	0.204	---	---	0.243	1965
1966	---	---	0.239	1.26	0.527	0.012	0.036	0	0	0	---	---	0.258	1966
1967	---	---	0	0.114	0.233	0	0	0	0	0	---	---	0.044	1967
1968	---	---	0.142	0.011	0	0	0	0	0	0	---	---	0.019	1968
1969	---	---	0	3.14	0.367	0	1.29	0.030	0	0	---	---	0.802	1969
1970	---	---	0	2.91	3.38	0.080	0	0	0	0	---	---	0.782	1970
1971	---	---	0	0.210	0.047	1.32	0.321	0	0	0	---	---	0.234	1971
1972	---	---	1.22	1.19	0.182	0.076	0	0	0	0	---	---	0.330	1972
MEAN	---	---	0.200	1.28	0.534	0.194	0.207	0.021	0.020	0.028	---	---	0.315	MEAN

LOCATION - LAT 49 27 19 N DRAINAGE AREA, 868 km²
LONG 100 57 44 W NATURAL FLOW

STONY CREEK NEAR BEDE - STATION NO. 05NE004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1936	---	---	---	---	1936
1965	---	5.27 ON APR 14	0.0 ON MAR 1 *	5 150	1965
1966	---	4.87 ON APR 3	0.0 ON MAR 1	5 490	1966
1967	---	C.068 ON MAY 4	0.0 ON MAR 1	822	1967
1968	---	0.0918 ON MAR 24	0.0 ON MAR 1	405	1968
1969	---	19.9 ON APR 15 *	0.0 ON MAR 1	12 700	1969
1970	---	9.85 ON MAY 2	0.0 ON MAR 1	18 800	1970
1971	---	5.66 ON JUN 10	0.0 ON MAR 1	4 950	1971
1972	---	4.56 B ON MAR 23	0.0 ON MAR 1	6 950	1972
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		8 660	MEAN

STONY CREEK NEAR BROOMHILL - STATION NO. 05NE018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	1.12	0.059	0.082	0.105	0.078	0.147	0.172	---	---	0.218	1965
1966	---	---	0.237	0.988	0.417	0.012	0.032	0	0	0	---	---	0.207	1966
1967	---	---	0	0.183	0.214	0	0	0	0	0	---	---	0.048	1967
1968	---	---	0.092	0.012	0	0	0	0	0	0	---	---	0.013	1968
1969	---	---	0	2.32	0.370	0.001	0.729	0.015	0	0	---	---	0.426	1969
1970	---	---	0	2.89	1.88	0.088	0.021	0	0	0	---	---	0.818	1970
1971	---	---	0	0.141	0.021	0.201	0.075	0	0	0	---	---	0.055	1971
1972	---	---	0.836	0.983	0.103	0.030	0	0	0	0	---	---	0.239	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	4.80	0.734	0.177	0.018	0	0	0	---	---	0.717	1974
1975	---	---	0	4.51	1.33	0.418	0.042	0.005	0.455	0.431	---	---	0.887	1975
1976	---	---	0	14.8	0.478	0.281	0.043	0	0	0	---	---	1.88	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0	0	0	0	0	0	0	---	---	0	1978
1979	---	---	0	0.884	0.488	0.027	0	0	0	0	---	---	0.178	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	0.011	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.525	0	0	0	0	0	0	---	---	0.084	1982
1983	---	---	0	1.14	0.083	0.003	0	0	0	0	---	---	0.181	1983
1984	---	---	0.002	0	0	0	0	0	0	0	---	---	0	1984
MEAN	---	0.011	0.058	1.78	0.307	0.057	0.053	0.005	0.030	0.030	---	---	0.285	MEAN

LOCATION - LAT 49 23 52 N DRAINAGE AREA, 474 km²
LONG 101 05 54 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.050 AND 0 m³/s OCCURRED IN FEBRUARY

STONY CREEK NEAR BROOMHILL - STATION NO. 05MG019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1985	---	5.27 ON APR 13	0B ON MAR 1 *	4 810	1985
1986	---	4.22 ON APR 3	0B ON MAR 1	4 380	1986
1987	---	0.906 ON MAY 2	0B ON MAR 1	1 080	1987
1988	---	0.9068 ON MAR 24	0B ON MAR 1	278	1988
1989	---	17.0 ON APR 18	0B ON MAR 1	9 020	1989
1970	---	14.5 ON APR 30	0B ON MAR 1	13 100	1970
1971	---	1.58 ON JUN 14	0B ON MAR 1	1 170	1971
1972	---	3.11 B ON MAR 21	0B ON MAR 1	5 080	1972
1973	---	0.0038 ON MAR 13	0B ON MAR 1	1.04	1973
1974	---	20.7 ON APR 18	0B ON MAR 1	15 200	1974
1975	---	18.5 ON APR 29	0B ON MAR 1	18 800	1975
1976	---	54.7 B ON APR 10 *	0B ON MAR 1	39 900	1976
1977	---	0 B ON MAR 1	0B ON MAR 1	0	1977
1978	---	0 B ON MAR 1	0B ON MAR 1	0	1978
1979	---	8.71 ON APR 25	0B ON MAR 1	3 780	1979
1980	---	0 ON MAR 1	0 ON MAR 1	0	1980
1981	---	0.0028 ON MAR 1	0B ON MAR 1	0.28	1981
1982	3.43 AT 05:43 CST ON APR 15	3.13 ON APR 15	0B ON MAR 1	1 380	1982
1983	3.87 AT 20:33 CST ON APR 12 *	3.74 ON APR 24	0B ON MAR 1	3 190	1983
1984	---	0.022A ON MAR 25	0B ON MAR 1	5.88	1984
				8 050	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

STURGEON CREEK AT ST. JAMES - STATION NO. 05MJ004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.848	3.34	---	---	---	---	---	---	---	---	---	1981
1982	---	---	0	1.08	0.880	0.337	0.414	0.78	1.78	0.291	0.310	---	1.43	1982
1983	---	---	1.89	11.2	1.43	4.38	0.218	0.481	0.082	0.021	---	---	2.38	1983
1984	---	---	0	3.48	0.181	0.177	0.083	0.038	0.028	0.033	---	---	0.495	1984
1985	---	---	0	5.82	0.409	0.118	0.110	0.038	0.083	0.041	---	---	0.810	1985
1986	---	---	0.139	8.05	2.42	0.078	0.475	0.082	0.048	0.041	---	---	1.52	1986
1987	---	---	0.018	7.58	0.888	0.032	0.085	0.088	0.038	0.031	---	---	1.04	1987
1988	---	---	0.875	2.13	0.082	0.038	0.181	2.88	0.803	0.388	---	---	0.943	1988
1989	---	---	0.001	12.8	2.53	2.31	1.82	0.833	0.107	0.103	---	---	2.51	1989
1970	---	---	0.032	17.8	8.77	1.27	0.838	0.047	0.048	0.084	---	---	3.33	1970
1971	---	---	0	10.2	0.288	0.237	0.143	0.027	0.012	0.038	---	---	1.38	1971
1972	---	---	0.073	11.1	0.184	0.042	0.088	0.250	0.038	0.028	---	---	1.44	1972
1973	---	---	1.63	0.223	0.082	0.080	0.054	0.022	0.177	0.081	---	---	0.315	1973
1974	---	---	0.037	22.8	10.1	0.184	0.042	0.102	0.034	0.036	---	---	4.08	1974
1975	---	---	0.031	3.01	0.308	0.082	0.057	0.037	0.048	0.082	---	---	0.447	1975
1976	---	---	0.088	8.84	0.038	0.187	0.088	0.048	0.025	0.026	---	---	1.27	1976
1977	---	---	0.074	0.773	1.07	0.140	0.153	0.077	0.080	0.058	---	---	0.302	1977
1978	---	---	0.180	13.0	1.38	0.258	0.054	0.101	0.114	0.093	---	---	1.87	1978
1979	---	---	0	22.0	9.72	0.747	0.324	0.288	0.287	0.172	---	---	3.88	1979
1980	---	---	0.027	2.85	0.038	0.078	0.048	0.087	0.188	0.084	---	---	0.388	1980
1981	---	---	1.38	0.434	0.010	0.014	0.018	0.018	0.008	0.021	---	---	0.238	1981
1982	---	---	0.311	3.38	0.201	0.023	0.118	0.030	0.018	0.104	---	---	0.518	1982
1983	---	---	2.48	13.7	0.102	1.24	0.004	0.018	0.014	0.085	---	---	2.17	1983
1984	---	---	0.312	0.497	0.077	2.52	0.082	0.004	0.048	0.122	---	---	0.481	1984
MEAN	---	---	0.428	7.80	1.80	0.832	0.248	0.841	0.178	0.085	0.310	---	1.44	MEAN

LOCATION - LAT 49 52 52 N LONG 97 16 43 W DRAINAGE AREA, 872 km^2 NATURAL FLOW

STURGEON CREEK AT ST. JAMES - STATION NO. 05MJ004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	---	---	---	1981
1982	---	18.3 E ON AUG 26	0 B ON MAR 1 *	30 200	1982
1983	---	19.3 ON JUN 4	0 B ON MAR 1	50 300	1983
1984	---	11.2 B ON APR 18	0 B ON MAR 1	10 600	1984
1985	---	13.7 B ON APR 14	.0 B ON MAR 1	17 200	1985
1986	---	32.3 B ON APR 13	0 B ON MAR 1	32 300	1986
1987	---	23.5 B ON APR 26	0 B ON MAR 1	22 200	1987
1988	---	18.6 ON AUG 24	0 ON MAR 1	20 000	1988
1989	---	38.1 ON APR 10	0 B ON MAR 1	53 200	1989
1970	---	50.4 ON APR 28	0 B ON MAR 1	70 400	1970
1971	---	42.5 ON APR 11	0 B ON MAR 1	28 500	1971
1972	---	41.8 ON APR 17	0.003 ON JUN 9	30 500	1972
1973	---	7.14 ON MAR 28	0 B ON MAR 1	6 880	1973
1974	---	62.7 ON APR 21 *	0.018 ON SEP 30	88 400	1974
1975	---	10.3 ON APR 17	0 E ON JUN 21	8 470	1975
1976	---	37.7 ON APR 8	0.003 ON AUG 28	28 600	1976
1977	---	12.6 ON MAY 5	0.0148 ON MAR 25	8 380	1977
1978	---	38.8 ON APR 14	0.0038 ON MAR 1	38 600	1978
1979	---	83.2 A ON APR 24	0 B ON MAR 1	82 400	1979
1980	---	10.4 B ON APR 10	0 B ON MAR 1	8 210	1980
1981	---	3.008 ON MAR 17	0 ON APR 10	8 680	1981
1982	---	15.6 B ON APR 13	0 B ON MAR 1	10 800	1982
1983	48.8B AT 18:12 CST ON APR 8 *	43.7 ON APR 8	0 B ON MAR 1	45 800	1983
1984	28.6 AT 18:10 CST ON JUN 21	14.3 ON JUN 22	0 ON AUG 28	9 540	1984
				30 500	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

STURGEON CREEK NEAR PERIMETER HIGHWAY - STATION NO. 05MJ011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.014	9.80	0.989	0.173	0.048	0.001	0	0	---	---	1.35	1978
1979	---	---	0	18.8	8.50	0.807	0.185	0	0	0	---	---	2.94	1979
1980	---	---	0	2.18	0.033	0	0.005	0.028	0.007	0.038	---	---	0.389	1980
1981	---	---	1.12	0.218	0.045	0.038	0.047	0.021	0.028	0.048	---	---	0.187	1981
1982	---	---	0.710	3.08	0.088	0.005	0.051	0.018	0.034	0.108	---	---	0.806	1982
1983	---	---	1.48	10.5	0.183	0.785	0.074	0.078	0.014	0.038	---	---	1.81	1983
1984	---	---	0.277	0.431	0.056	1.48	0.129	0.017	0.037	0.122	---	---	0.312	1984
MEAN	---	---	0.518	5.11	1.13	0.422	0.074	0.023	0.030	0.060	---	---	1.03	MEAN

LOCATION - LAT 49 55 20 N DRAINAGE AREA, 541 km²
LONG 97 20 40 W NATURAL FLOW

STURGEON CREEK NEAR PERIMETER HIGHWAY - STATION NO. 05MJ011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1978	34.0 B AT 10:07 CST ON APR 14	30.8 B ON APR 14	0B ON MAR 1 *	25 800	1978
1979	53.3 B AT 03:54 CST ON APR 23 *	52.7 B ON APR 23 *	0B ON MAR 1	82 300	1979
1980	---	7.588 ON APR 11	0B ON MAR 1	8 120	1980
1981	3.26 AT 14:57 CST ON MAR 27	3.13 ON MAR 28	0 ON MAY 18	4 180	1981
1982	---	10.2 B ON APR 13	0B ON MAR 1	10 700	1982
1983	37.5 B AT 15:56 CST ON APR 5	35.9 B ON APR 5	0B ON MAR 1	34 100	1983
1984	11.1 AT 14:31 CST ON JUN 22	9.47 ON JUN 22	0 ON APR 17	5 800	1984
				21 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SWAN RIVER AT SWAN RIVER - STATION NO. 05LE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	---	11.3	2.83	---	1912
1913	1.98	1.42	1.42	53.8	28.8	13.8	51.8	15.3	7.10	4.78	2.83	1.42	16.3	1913
1914	1.13	1.13	0.880	34.1	44.8	8.49	1.44	0.834	0.821	1.40	1.13	0.886	7.88	1914
1915	0	0	0.388	11.3	2.30	2.71	8.72	2.11	1.12	1.70	1.14	0.283	2.40	1915
1916	0.491	0.388	0.388	14.7	14.7	48.4	18.0	3.88	2.48	3.87	2.13	0.810	8.82	1916
1917	0.184	0.084	0.118	15.7	41.1	11.4	18.2	2.45	1.88	1.38	1.83	0.884	7.88	1917
1918	0.388	0.122	5.88	12.8	8.19	23.3	28.8	8.88	3.81	3.38	2.00	0.886	7.88	1918
1919	0.381	0.291	0.252	20.1	12.0	4.18	4.87	2.91	5.23	8.89	2.21	0.313	6.88	1919
1920	---	---	---	53.0	88.0	15.9	4.88	1.83	1.34	2.82	---	---	---	1920
1921	---	---	---	45.2	27.2	21.8	11.3	16.1	13.8	14.8	8.81	2.83	---	1921
1922	1.42	0.850	0.708	74.3	102	14.2	5.88	8.20	5.34	4.78	4.87	0.881	18.7	1922
1923	0.588	0.425	1.42	81.2	84.8	48.7	28.8	8.30	2.80	3.12	1.31	1.08	17.8	1923
1924	0.803	0.881	0.807	14.3	12.8	8.87	2.43	10.1	2.28	2.87	1.48	0.844	4.80	1924
1925	0.448	0.137	0.827	82.4	14.7	31.0	18.3	3.88	3.80	2.88	1.78 R	0.780	13.4 R	1925
1926	0.388	0.180	0.618	48.4	10.8	10.8	2.58	0.481	0.800	3.25	3.88	0.887	8.88	1926
1927	0.580	0.303	0.802	47.8	87.3	33.8	17.8	7.07	12.0	8.40 R	4.88	1.88	18.1 R	1927
1928	0.727	0.324	8.88	9.88	11.8	5.28	12.8	2.81	1.80	1.37	0.708	0.227	4.84	1928
1929	0.017	0.008	0.227	7.08	8.18	3.58	3.18	0.888	0.893	0.845	---	---	---	1929
1930	---	---	---	---	8.03	8.38	8.82	1.17	1.38	1.12	---	---	---	1930
1931	---	---	---	---	2.75	1.28	1.34	0.884	1.82	3.00	---	---	---	1931
1932	---	---	---	18.8	8.12	2.78	8.48	1.28	1.18	1.37	---	---	---	1932
1933	---	---	---	23.1	17.8	18.8	11.0	1.88	2.38	2.84	---	---	---	1933
1934	---	---	---	---	38.7	11.2	8.42	1.33	1.07	1.81	---	---	---	1934
1935	---	---	---	---	8.78	23.1	8.88	1.88	1.08	1.71	---	---	---	1935
1936	---	---	---	---	22.0	10.8	4.88	0.748	0.483	---	---	---	---	1936
1950	---	---	---	---	---	---	---	8.14	1.82	1.83	2.78	0.874	---	1950
1951	0.838	0.888	0.838	23.1	43.8	13.8	7.33	8.31	18.8	17.8	8.28	2.18	11.7	1951
1952	0.832	0.881	0.744	44.7	18.8	8.82	5.74	3.83	2.88	1.82	1.48	0.840	7.80	1952
1953	0.817	0.884	0.888	31.8	21.3	28.1	48.2	18.2	18.8	8.80	8.41	2.14	14.8	1953
1954	1.18	1.13	1.08	23.4	81.8	78.4	18.8	3.83	18.2	7.13	4.81	2.18	18.8	1954
1955	0.723	0.828	0.888	48.1	81.8	8.78	4.81	0.778	0.480	1.18	1.08	0.888	10.1	1955
1956	0.888	0.888	0.888	18.4	88.4	18.2	14.8	3.88	2.77	1.40	1.38	0.818	10.3	1956
1957	0.804	0.388	0.348	80.8	37.4	7.81	3.88	1.22	1.48	1.47	1.20	0.828	8.85	1957
1958	0.481	0.314	0.780	8.88	2.83	2.81	3.12	0.823	0.217	1.88	0.848	0.431	1.88	1958
1959	0.133	0	0.458	8.88	8.88	3.78	4.88	0.818	3.80	8.82	3.88	1.24	3.41	1959
1960	0.883	0.851	0.818	44.8	20.8	12.8	2.78	1.28	0.358	---	---	---	---	1960
MEAN	0.847	0.480	1.10	33.1	27.8	18.2	11.7	4.28	3.81	3.83 R	3.28 R	1.11	8.71	MEAN

LOCATION - LAT 52 05 48 N DRAINAGE AREA, 4 070 km²
LONG 101 16 30 W NATURAL FLOW

R - REVISED SINCE JAN 1980

SWAN RIVER AT SWAN RIVER - STATION NO. OSLE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	138 ON APR 18	1.42 B ON FEB 1	514 000	1913
1914	---	113 ON MAY 7	0.311 ON AUG 19	248 000	1914
1915	---	32.3 ON APR 14	0 B ON JAN 1 *	75 700	1915
1916	---	77.3 ON JUN 11	0.3118 ON FEB 24	282 000	1916
1917	---	84.8 ON MAY 7	0.0288 ON MAR 1	252 000	1917
1918	---	88.0 ON JUL 4	0.0288 ON FEB 17	252 000	1918
1919	---	58.1 ON APR 14	0.0578 ON DEC 22	156 000	1919
1920	---	157 ON APR 25	---	---	1920
1921	---	83.0 ON APR 21	---	---	1921
1922	---	240 ON APR 25 *	0.7068 ON MAR 1	588 000	1922
1923	---	303 ON APR 23	0.4268 ON FEB 1	557 000	1923
1924	---	28.9 ON MAY 1	0.5388 ON MAR 14	148 000	1924
1925	---	225 ON APR 8	0.0578 ON FEB 28	423 000R	1925
1926	---	126 B ON APR 19	0.0718 ON MAR 3	218 000	1926
1927	---	123 B ON APR 21	0.1868 ON FEB 19	505 000R	1927
1928	---	43.0 ON JUL 6	0.1708 ON MAR 2	144 000	1928
1929	---	14.8 ON APR 28	---	---	1929
1930	---	---	---	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
1933	---	41.1 ON APR 13	---	---	1933
1934	---	---	---	---	1934
1935	---	55.2 ON MAY 8	---	---	1935
1936	---	---	---	---	1936
1937	---	---	---	---	1937
1938	---	---	---	---	1938
1939	---	---	---	---	1939
1940	---	---	---	---	1940
1941	---	---	---	---	1941
1942	---	88.6 ON MAY 2	0.5108 ON JAN 25	388 000	1942
1943	---	77.6 ON APR 8	0.4818 ON DEC 24	237 000	1943
1944	---	77.8 ON JUL 3	0.5388 ON FEB 8	471 000	1944
1945	---	118 ON JUN 20	0.8918 ON JAN 15	525 000	1945
1946	---	104 ON APR 8	0.388 ON SEP 10	317 000	1946
1947	---	115 ON MAY 8	0.5888 ON FEB 1	328 000	1947
1948	---	192 ON APR 23	0.3408 ON MAR 7	278 000	1948
1949	---	11.78 ON APR 3	0.057 ON SEP 10	53 000	1949
1950	---	28.38 ON APR 10	0 B ON JAN 19	108 000	1950
		84.1 ON APR 21	---	---	
				308 000R	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

SWAN RIVER NEAR MINITONAS - STATION NO. OSLE005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	---	---	---	---	---	---	---	0.505	0.575	0.388	---	1980
1981	0.352	0.153	0.114	0.883	1.53	0.715	0.087	0.133	0.010	0.085	0.271	0.335	0.389	1981
1982	0.058	0	0.015	4.61	8.72	1.48	0.402	0.182	1.28	0.801	0.449	0.381	1.67	1982
1983	0.089	0.008	0.102	22.6	2.37	2.46	2.51	1.13	0.547	0.541	0.821	0.389	2.77	1983
1984	0.331	0.435	0.545	10.2	11.6	1.08	1.20	1.51	4.96	5.04	2.41	1.16	3.38	1984
1985	0.804	0.638	0.587	15.6	14.8	35.0	5.65	2.78	3.40	5.09	1.82	1.11	7.37	1985
1986	0.840	0.733	0.708	48.3	19.3	16.5	18.5	5.26	4.45	1.45	1.53	1.19	8.63	1986
1987	0.883	0.818	0.789	7.80	48.1	6.78	0.881	0.780	0.192	0.754	0.182	0.280	5.76	1987
1988	0.184	0.232	3.82	7.40	1.73	3.20	3.51	7.65	5.19	1.48	1.19	0.937	3.84	1988
1989	0.471	0.586	0.684	22.0	4.83	2.37	2.82	1.00	0.784	4.92	1.70	0.783	3.84	1989
1970	0.413	0.434	0.543	20.2	25.8	10.1	13.4	4.07	1.18	3.85	13.2	3.83	8.02	1970
1971	1.18	0.947	0.842	87.2	18.4	5.80	1.83	1.78	0.328	2.84	2.61	1.85	8.44	1971
1972	0.882	0.737	0.881	80.6	58.1	6.00	3.52	0.886	0.343	0.742	0.338	0.007	10.2	1972
1973	0.002	0	1.16	8.84	8.71	14.5	10.4	1.86	0.801	1.28	1.07	0.888	3.71	1973
1974	0.872	0.899	0.825	80.6	84.6	18.8	2.21	1.17	2.40	3.49	2.07	1.18	11.6	1974
1975	0.839	0.888	0.767	34.6	28.8	15.8	4.10	1.28	4.57	7.11	3.75	1.11	8.81	1975
1976	0.770	0.723	0.781	88.3	7.03	33.0	17.8	1.77	0.813	0.807	0.520	0.238	9.88	1976
1977	0.388	0.401	0.488	14.1	4.88	2.08	1.77	3.08	6.77	6.41	3.14	1.88	3.76	1977
1978	1.10	0.712	0.708	27.2	18.4	2.70	2.44	0.818	1.88	3.95	2.11	1.22	8.10	1978
1979	0.870	0.888	0.889	48.8	82.4	25.0	2.82	0.840	0.848	0.773	0.888	0.847	11.1	1979
1980	0.418	0.488	0.807	17.8	2.31	0.888	1.81	2.32	2.88	4.81	2.14	1.10	3.08	1980
1981	0.887	0.310	0.828	10.1	8.88	2.80	2.44	1.41	0.027	8.71	4.31	1.07	3.07	1981
1982	0.134	0.123	0.303	5.21	5.00	2.83	7.88	3.28	1.03	2.48	1.04	0.884	2.88	1982
1983	0.838	0.808	0.321	34.1	30.8	12.8	20.8	8.47	2.48	2.72	2.88	1.28	8.87	1983
1984	0.830	1.02	1.78	34.8	32.8	28.8	3.87	0.742	0.844	1.73	0.871	0.578	8.18	1984
MEAN	0.574	0.508	0.888	25.8	19.0	10.4	5.48	2.11	1.88	2.81	2.08	0.838	8.08	MEAN

LOCATION - LAT 52 11 47 N
LONG 101 03 37 W

DRAINAGE AREA, 4 220 km^2
NATURAL FLOW

SWAN RIVER NEAR MINITONAS - STATION NO. 05LE005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	---	---	---	1980
1981	---	3.00 ON APR 24	0 ON AUG 25 *	11 700	1981
1982	---	15.0 A ON MAY 3	0 B ON JAN 28	48 700	1982
1983	---	87.1 B ON APR 10	0 B ON FEB 13	87 200	1983
1984	---	22.7 B ON APR 14	0.3110 ON JAN 7	107 000	1984
1985	82.4R AT 13:30 CST ON JUN 10	81.6 ON JUN 10	0.6550 ON MAR 4	229 000	1985
1986	---	127 B ON APR 17	0.6550 ON MAR 8	303 000	1986
1987	---	87.4 B ON MAY 6	0.000 ON SEP 12	182 000	1987
1988	---	38.8 B ON MAR 30	0.1810 ON JAN 13	62 600	1988
1989	---	76.6 B ON APR 15	0.201 ON SEP 3	112 000	1989
1990	84.8 AT 05:00 CST ON MAY 4	83.8 ON MAY 4	0.3408 ON JAN 19	253 000	1990
1991	163 AT 00:00 CST ON APR 18	158 ON APR 18	0.127 ON SEP 19	288 000	1991
1992	170 AT 15:20 CST ON APR 22	166 ON APR 22	0.0038 ON DEC 28	323 000	1992
1993	24.2 AT 09:56 CST ON JUL 8	24.1 ON JUL 8	0 B ON JAN 25	117 000	1993
1994	---	217 ON APR 21	0.576 ON AUG 11	369 000	1994
1995	120 AT 18:40 CST ON APR 25	117 ON APR 25	0.482 ON AUG 19	272 000	1995
1996	---	159 B ON APR 10	0.1819 ON DEC 1	312 000	1996
1997	---	45.3 B ON APR 14	0.3088 ON JAN 1	118 000	1997
1998	86.8 AT 01:06 CST ON APR 19	85.6 ON APR 19	0.487 ON AUG 23	181 000	1998
1999	---	186 A ON APR 25	0.357 ON SEP 8	349 000	1999
2000	81.4 AT 16:30 CST ON APR 17	56.5 ON APR 17	0.3928 ON JAN 1	87 400	2000
2001	---	16.8 E ON OCT 18	0.010 ON OCT 8	96 800	2001
2002	23.8 AT 12:56 CST ON JUL 18	23.4 ON JUL 24	0.0855 ON JAN 28	60 300	2002
2003	231 AT 05:43 CST ON APR 25 *	218 ON APR 25 *	0.1628 ON MAR 20	302 000	2003
2004	52.8 AT 12:40 CST ON MAY 27	52.7 ON MAY 27	0.284 ON SEP 2	200 000	2004
MEAN				191 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

TAYLOR RIVER NEAR THOMPSON - STATION NO. 05TG002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	---	---	---	---	---	---	---	3.42	3.84	3.08	---	1970
1971	1.27	0.848	0.714	4.88	18.0	9.15	10.9	7.32	5.32	---	---	---	---	1971
1972	2.14	1.42	0.902	2.98	22.8	11.0	5.48	2.47	3.83	5.82	3.11	1.12	5.29	1972
1973	1.08	1.22	0.780	0.571	8.56	4.86	4.86	7.48	5.88	5.00	4.38	2.84	4.13	1973
1974	1.19	0.826	0.861	5.04	18.4	9.68	5.81	3.78	4.28	4.62	3.18	2.32	5.09	1974
1975	1.42	0.742	0.686	2.08	18.4	18.4	10.7	5.82	5.85	10.8	5.30	2.26	5.80	1975
1976	1.07	0.857	0.736	2.21	3.89	10.1	13.1	5.88	3.33	3.36	2.48	1.39	4.12	1976
1977	0.734	0.632	0.803	11.2	10.3	12.6	11.0	4.04	5.32	5.03	5.42	1.81	5.74	1977
1978	0.384	0.233	0.206	1.40	12.4	5.02	7.18	5.62 R	7.01	17.4	9.58	6.45	6.28R	1978
1979	1.81	0.644	0.380	0.465	13.6	22.8	8.28	1.73	1.86	3.13	4.05	2.28	4.88	1979
1980	0.728	0.531	0.510	4.36	2.85	1.86	2.40	5.82	18.8	15.2	4.70	2.30	4.85	1980
1981	1.38	0.887	0.788	0.721	13.5	3.86	0.778	0.177	0.047	3.87	2.07	1.05	2.44	1981
1982	0.873	0.606	0.431	1.80	23.7	11.2	2.47	3.23	3.45	4.11	3.08	1.90	4.75	1982
1983	1.56	1.30	1.02	1.83	23.0	17.6	5.58	3.05	11.1	5.86	3.83R	1.36R	5.88R	1983
1984	0.808	0.681	0.656	8.88	18.0	10.7	5.22	2.85	6.17	7.74	4.21	2.00	5.82	1984
MEAN	1.16	0.825	0.656	3.85	14.7	10.0	6.89	4.38 R	5.83	7.08	4.38R	2.13R	5.15	MEAN

LOCATION - LAT 55 29 20 N, LONG 96 11 10 W
DRAINAGE AREA, 883 km^2
NATURAL FLOW
R - REVISED SINCE JAN 1980

TAYLOR RIVER NEAR THOMPSON - STATION NO. 05TG002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	---	---	---	---	1970
1971	23.7 AT 10:51 CST ON JUL 4	23.0 ON MAY 18	---	---	1971
1972	32.6 AT 00:12 CST ON MAY 1	32.3 ON MAY 1	0.848 ON APR 16	187 000	1972
1973	16.2 AT 22:47 CST ON MAY 7	15.1 ON MAY 10	0.5108 ON APR 28	130 000	1973
1974	26.3 AT 00:23 CST ON APR 30	22.7 ON MAY 13	0.7188 ON APR 15	160 000	1974
1975	28.6 AT 23:00 CST ON MAY 26	26.3 ON MAY 26	0.3888 ON MAR 28	215 000	1975
1976	19.8 AT 10:00 CST ON JUN 17	19.7 ON JUN 17	0.6238 ON MAR 23	130 000	1976
1977	---	21.58 ON APR 17	0.6768 ON MAR 27	181 000	1977
1978	---	20.5 ON OCT 6	0.3278 ON FEB 6	198 000R	1978
1979	38.4 AT 20:30 CST ON JUN 2 *	33.7 ON JUN 2	0.2848 ON APR 9	183 000	1979
1980	28.2 AT 12:16 CST ON SEP 22	28.0 ON SEP 22	0.408 ON AUG 18	187 000	1980
1981	---	21.48 ON MAY 13	0.030 ON SEP 28 *	77 100	1981
1982	38.1 AT 18:26 CST ON MAY 5	38.0 ON MAY 5	0.3838 ON APR 18	180 000	1982
1983	37.6 AT 12:46 CST ON MAY 29	37.6 ON MAY 30 *	0.7708 ON APR 15	210 000R	1983
1984	---	24.8 ON APR 28	0.6478 ON APR 1	184 000	1984
MEAN				182 000R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

TOBACCO CREEK NEAR ROLAND - STATION NO. 05OF012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1918	---	---	---	0.382	0.007	0.088	0.013	0	---	---	---	---	---	1918
1920	---	---	---	---	0.118	0.004	0	---	---	---	---	---	---	1920
1921	---	---	---	0.858	0.053	0.011	---	---	---	---	---	---	---	1921
1922	---	---	---	1.40	1.25	0.080	0.038	0.028	---	---	---	---	---	1922
1923	---	---	---	---	0.477	0.158	0.008	0	0	---	---	---	---	1923
1924	---	---	---	---	0.083	0	0	0	---	---	---	---	---	1924
1925	---	---	---	0.848	0.078	0.735	---	---	---	---	---	---	---	1925
1926	---	---	0.078	0.310	0.015	---	0.034	0	0.018	---	---	---	---	1926
1927	---	---	---	3.28	4.38	1.92	0.218	0	0.070	---	---	---	---	1927
1928	---	---	---	0.217	0.118	1.38	2.14	0.024	---	---	---	---	---	1928
MEAN	---	---	0.078	1.01	0.855	0.485	0.308	0.007	0.028	---	---	---	---	MEAN

LOCATION - LAT 49 24 10 N LONG 97 55 50 W
DRAINAGE AREA, 298 km²
NATURAL FLOW

TOBACCO CREEK NEAR ROLAND - STATION NO. 05OF012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1918	---	1.84 ON APR 8	0 ON APR 25 *	---	1918
1920	---	5.188 ON APR 15	0 ON MAY 23	---	1920
1921	---	11.0 ON JUL 5	0 ON MAY 17	---	1921
1922	---	11.2 ON MAY 13	0 ON JUL 8	---	1922
1923	---	20.2 B ON APR 18	0 ON JUL 15	---	1923
1924	---	2.83 ON APR 29	0E ON APR 18	---	1924
1925	---	---	0 ON MAY 21	---	1925
1926	---	2.75 ON JUN 24	0E ON MAR 1	---	1926
1927	---	24.1 ON MAY 11 *	0 ON AUG 1	---	1927
1928	---	12.8 ON JUL 8	0 ON AUG 9	---	1928
				---	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.302	1.81	0.260	0.104	0.042	0	0	0.060	---	---	0.378	1959
1960	---	---	0.047	4.73	0.233	0.029	0	0	0	0	---	---	0.819	1960
1961	---	---	0.833	0.848	0.087	0.002	0	0	0	0	---	---	0.198	1961
1962	---	---	0	1.57	1.31	0.313	0.021	0	0	0	---	---	0.400	1962
1963	---	---	0.387	0.058	0.002	0.447	0	0	0	0	---	---	0.113	1963
MEAN	---	---	0.390	1.73	0.378	0.179	0.013	0	0	0.008	---	---	0.321	MEAN

LOCATION - LAT 49 25 42 N LONG 98 05 01 W
DRAINAGE AREA, 231 km²
NATURAL FLOW

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	8.72 ON APR 3	0E ON MAR 1 *	8 800	1959
1960	---	12.7 B ON APR 8 *	0E ON MAR 1	13 100	1960
1961	---	4.648 ON MAR 29	0E ON MAR 1	4 150	1961
1962	---	12.7 B ON APR 18	0 ON MAR 1	8 480	1962
1963	---	5.13 ON JUN 10	0E ON MAR 1	2 400	1963
				8 800	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OPO18

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1984	---	---	0	0.217	0.032	0.009	0	---	---	---	---	---	---	1984
1985	---	---	0	1.43	0	0.001	0	0	0	0	---	---	0.175	1985
1986	---	---	0.423	0.826	0.384	0	0.123	0	0	0	---	---	0.220	1986
1987	---	---	0.018	1.81	0.275	0.003	0.081	0	0	0	---	---	0.238	1987
1988	---	---	0.149	0.056	0.264	0.026	0.082	1.31	0.181	0.032	---	---	0.265	1988
1989	---	---	0	3.58	0.192	0.248	1.04	0.058	0	0	---	---	0.632	1989
1970	---	---	0	4.35	1.76	0.053	0	0	0	0	---	---	0.705	1970
1971	---	---	0	1.47	0.111	0.171	0.057	0	0.017	0.301	---	---	0.249	1971
1972	---	---	0.749	0.932	0.238	0.010	0	0.004	0	0	---	---	0.241	1972
1973	---	---	0.087	0.030	0.052	0.003	0.011	0.003	0	0.004	---	---	0.021	1973
1974	---	---	0	4.07	2.42	0.180	0.002	0	0	0	---	---	0.824	1974
1975	---	---	0	0.308	0.138	0.255	0.079	0	0	0	---	---	0.088	1975
1976	---	---	0.003	1.31	0.031	0	0	0	0	0	---	---	0.188	1976
1977	---	---	0	0.002	0.010	0	0	0	0.078	0.010	---	---	0.012	1977
1978	---	---	0	0.813	0.447	0.187	0.234	0	0.087	0	---	---	0.207	1978
1979	---	---	0	4.01	1.22	0.188	0.021	0.012	0	0	---	---	0.875	1979
1980	---	---	0	0.228	0.001	0	0	0	0	0	---	---	0.028	1980
1981	---	0.084	0.081	0.028	0.003	0.012	0.004	0.001	0	0	---	---	0.015	1981
1982	---	---	0.017	0.218	0.028	0.021	0	0	0	0.012	---	---	0.036	1982
1983	---	---	0.388	1.17	0.038	0.030	0.011	0	0	0	---	---	0.203	1983
1984	---	---	0.020	0.031	0.084	0.028	0	0	0	0	---	---	0.018	1984
MEAN	---	0.084	0.092	1.27	0.388	0.087	0.084	0.088	0.018	0.013	---	---	0.254	MEAN

LOCATION - LAT 49 27 00 N DRAINAGE AREA, 107 km²
LONG 98 09 48 W NATURAL FLOW

REMARKS - PRIOR TO 1980 LOCATED 4.8 km WEST * 7.8 km NORTH OF ROSEBANK, DR. AREA 87.3 km²

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OPO18

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1984	---	0.0888 ON APR 10	0B ON MAR 1 *	---	1984
1985	---	12.7 ON APR 13	0 ON MAR 1	3 710	1985
1986	12.7 AT 07:00 CST ON MAY 5	6.34 ON MAY 5	0B ON MAR 1	4 680	1986
1987	---	11.8 ON APR 21	0B ON MAR 1	4 970	1987
1988	23.2 AT 19:30 CST ON AUG 24 *	10.1 ON AUG 25	0B ON MAR 1	5 820	1988
1989	23.7 ON APR 10	18.4 ON APR 10	0B ON MAR 1	13 400	1989
1970	18.5 AT 07:35 CST ON APR 30	17.1 ON APR 30	0B ON MAR 1	16 200	1970
1971	13.4 B AT 13:40 CST ON APR 5	8.71 B ON APR 5	0B ON MAR 1	5 280	1971
1972	---	4.16 B ON MAR 18	0B ON MAR 1	5 080	1972
1973	0.5188 AT 17:10 CST ON MAR 15	0.4368 ON MAR 14	0B ON MAR 1	452	1973
1974	22.1 AT 11:20 CST ON APR 21	18.3 ON APR 21	0B ON MAR 1	17 800	1974
1975	4.50 AT 01:13 CST ON JUN 28	3.86 ON JUN 28	0B ON MAR 1	2 040	1975
1976	7.82 B AT 14:41 CST ON APR 3	4.45 B ON APR 3	0B ON MAR 1	3 500	1976
1977	0.888 AT 11:58 CST ON SEP 28	0.773 ON SEP 28	0B ON MAR 1	254	1977
1978	5.18 AT 11:58 CST ON MAY 26	3.43 ON MAY 26	0B ON MAR 1	4 380	1978
1979	---	28.8 B ON APR 30 *	0B ON MAR 1	14 300	1979
1980	---	1.48 B ON APR 7	0B ON MAR 1	588	1980
1981	---	0.3388 ON MAR 18	0 ON APR 29	337	1981
1982	---	1.18 B ON APR 14	0B ON MAR 1	768	1982
1983	4.75 AT 15:22 CST ON APR 7	3.71 B ON APR 1	0B ON MAR 1	4 300	1983
1984	0.7148 AT 22:17 CST ON MAR 27	0.290 ON MAY 8	0B ON MAR 1	380	1984
				5 390	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

TOUROND CREEK NEAR TOUROND - STATION NO. 05OE009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1989	---	---	0	2.51	0.311	0.077	0.060	0.051	0.005	0.018	---	---	0.373	1989
1970	---	---	0	2.18	2.88	0.562	0.043	0	0.011	0.015	---	---	0.723	1970
1971	---	---	0	1.76	0.061	0.006	0.006	0.005	0.003	0.038	---	---	0.223	1971
1972	---	---	0.080	0.529	0.085	0.015	0	0.005	0.001	0.005	---	---	0.084	1972
1973	---	---	0.723	0.083	0.011	0.010	0.003	0	0.058	0.037	---	---	0.114	1973
1974	---	---	0	4.88	4.78	0.420	0.003	0	0	0	---	---	1.28	1974
1975	---	---	0	0.280	0.084	0.488	0.444	0	0	0	---	---	0.184	1975
1976	---	---	0.002	0.484	0.008	0.280	0.007	0	0	0	---	---	0.083	1976
1977	---	---	0.027	0.151	0.007	0.006	0	0.001	0.030	0.007	---	---	0.028	1977
1978	---	---	0.001	1.84	0.108	0.015	0.003	0	0.002	0	---	---	0.208	1978
1979	---	---	0	2.53	1.09	0.532	0.011	0.005	0.004	0	---	---	0.515	1979
1980	---	---	0	0.528	0.005	0	0	0	0	0	---	---	0.065	1980
1981	---	---	0.031	0.021	0.013	0.113	0.006	0.003	0	0.007	---	---	0.024	1981
1982	---	---	0.533	1.88	0.137	0.709	1.43	1.24	0.017	0.078	---	---	0.778	1982
1983	---	---	0.885	3.05	0.118	0.087	1.18	0.082	0	0	---	---	0.658	1983
1984	---	---	0.438	0.213	0.034	0.740	0.052	0.007	0	0.002	---	---	0.163	1984
MEAN	---	---	0.188	1.42	0.808	0.268	0.202	0.089	0.008	0.013	---	---	0.343	MEAN

LOCATION - LAT 49 31 50 N DRAINAGE AREA, 237 km²
LONG 98 58 50 W NATURAL FLOW

TOUROND CREEK NEAR TOUROND - STATION NO. 05OE005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	10.8 B ON APR 10	0 B ON MAR 1 *	7 800	1969
1970	---	8.13 ON MAY 15	0 B ON MAR 1	15 300	1970
1971	---	10.8 B ON APR 8	0 B ON MAR 1	4 830	1971
1972	---	1.40 ON APR 19	0 B ON MAR 1	1 760	1972
1973	---	2.37 B ON MAR 13	0 B ON MAR 1	3 420	1973
1974	---	26.8 ON MAY 31 *	0 B ON MAR 1	26 800	1974
1975	---	8.36 E ON JUN 30	0 B ON MAR 1	3 270	1975
1976	---	3.20 ON JUN 12	0 B ON MAR 1	1 880	1976
1977	---	0.9438 ON APR 9	0 B ON MAR 1	587	1977
1978	---	8.77 B ON APR 9	0 B ON MAR 1	4 350	1978
1979	---	17.3 B ON APR 19	0 B ON MAR 1	10 900	1979
1980	9.80 AT 21:46 CST ON APR 5	4.76 B ON APR 6	0 B ON MAR 1	1 380	1980
1981	3.00 AT 22:41 CST ON JUN 27	1.79 ON JUN 28	0 ON MAY 16	507	1981
1982	9.46 AT 02:16 CST ON JUL 29 *	9.26 ON JUL 29	0.0018 ON MAR 1	18 400	1982
1983	---	8.86 B ON APR 7	0 B ON MAR 1	13 900	1983
1984	4.34 AT 09:02 CST ON JUN 9	3.56 ON JUN 9	0 B ON MAR 1	3 880	1984
				7 280	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TRURO CREEK AT WESTERN AIRPORT BOUNDARY - STATION NO. 05MJ009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0	0.175	0.045	0.018	0	0	0	0	---	---	0.039	1978
1983	---	---	0.006	0.187	0	0.127	0.014	0	0	0	---	---	0.041	1983
1984	---	---	0.001	0	0	0.172	0.009	0	0	0	---	---	0.022	1984
MEAN	---	---	0.002	0.121	0.015	0.106	0.007	0	0	0	---	---	0.031	MEAN

LOCATION - LAT 49 54 36 N, LONG 97 15 50 W
DRAINAGE AREA, 11.4 km^2
NATURAL FLOW

TRURO CREEK AT WESTERN AIRPORT BOUNDARY - STATION NO. 05MJ009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	0.8178 AT 13:56 CST ON APR 10	0.817 ON APR 11 *	0B ON MAR 1 *	823	1978
1983	0.878 AT 20:57 CST ON JUN 22 *	0.824 ON JUN 23	0B ON MAR 1	698	1983
1984	0.643 AT 19:11 CST ON JUN 22	0.798 ON JUN 22	0B ON MAR 1	467	1984
				653	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TRURO CREEK NEAR ASSINIBOINE GOLF COURSE - STATION NO. 05MJ010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.027	0.208	0.123	0.018	0.015	0.008	0.027	0.001	---	---	0.052	1978
1983	---	---	0.111	0.207	0.004	0.160	0.010	0.013	0.003	0.001	---	---	0.081	1983
1984	---	---	0.033	0.028	0.017	0.278	0.025	0.004	0.028	0.070	---	---	0.072	1984
MEAN	---	---	0.057	0.147	0.048	0.179	0.019	0.008	0.019	0.024	---	---	0.062	MEAN

LOCATION - LAT 49 53 18 N, LONG 97 13 40 W
DRAINAGE AREA, 18.3 km^2
NATURAL FLOW

TRURO CREEK NEAR ASSINIBOINE GOLF COURSE - STATION NO. 05MJ010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	4.22 AT 23:21 CST ON MAY 26	1.23 ON MAY 26	0B ON MAR 1 *	1 110	1978
1983	2.38 AT 03:56 CST ON JUN 23	0.863 ON JUN 23	0B ON MAR 1	1 300	1983
1984	5.60 AT 21:13 CST ON JUN 21 *	1.69 ON JUN 22 *	0B ON MAR 1	1 520	1984
				1 310	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TUMBLEWELL CREEK NEAR SOUTH INDIAN LAKE - STATION NO. 05ZC004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	---	---	---	0.024	0.026	0.132	0.085	---	---	---	---	1978
MEAN	---	---	---	---	---	0.024	0.026	0.132	0.085	---	---	---	---	MEAN

LOCATION - LAT 55 46 30 N, LONG 98 07 05 W. DRAINAGE AREA, 4.14 km². NATURAL FLOW.

DATA CONTRIBUTED BY - FRESHWATER INSTITUTE (DFO) (CANADA)

TURTLE RIVER NEAR LAURIER - STATION NO. 05LJ007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1927	---	---	---	---	18.8	---	---	3.80	0.527	1.03	---	---	---	1927
1928	---	---	---	---	2.57	10.2	3.30	0.518	0.113	---	---	---	---	1928
1948	---	---	---	---	---	0.869	2.02	1.85	0.250	0.278	---	---	---	1948
1949	---	---	---	5.93	1.84	2.19	2.40	0.524	0.248	0.527	---	---	---	1949
1950	---	---	---	6.56	17.7	9.42	6.01	1.89	0.963	1.25	---	---	---	1950
1951	---	---	---	10.0	4.97	2.37	0.527	0.525	0.573	1.20	---	---	---	1951
1952	---	---	---	8.56	1.21	0.692	0.383	0.585	2.33 R	0.522R	---	---	---	1952
1953	---	---	---	9.71	15.1	24.1	7.72	2.50	1.44	1.23	---	---	---	1953
1954	---	---	---	4.02	7.06	10.8	3.32	0.729	4.66	3.42	1.98	---	---	1954
1955	---	---	---	13.8	12.0	14.8	1.88	0.549	0.436	0.521	---	---	---	1955
1956	---	---	---	7.85	9.75	20.7	12.7	1.09	0.776	0.883	---	---	---	1956
1957	---	---	0.812	12.1	4.49	5.23	0.871	0.458	0.667	0.632	---	---	2.07	1957
1958	---	---	1.54	3.57	1.18	0.464	1.48	0.102R	0.094R	0.353R	---	---	1.10 R	1958
1959	---	---	0.804	3.87	4.85	1.28	0.662R	0.154R	0.261R	0.746	---	---	1.54 R	1959
1960	---	---	0.057	18.2	10.5	1.89	0.528	0.648	0.250	0.358	---	---	4.01	1960
1961	---	---	0.126	0.880	2.01	0.183	0.034	0	0.011	0.104	---	---	0.414	1961
1962	---	---	0	3.81	2.40	2.48	0.185	0.182	0.098	0.171	---	---	1.13	1962
1963	---	---	1.31	10.1	4.24	7.06	1.01	0.266	0.485	0.445	---	---	3.09	1963
1964	---	---	0.009	7.01	2.74	0.570	0.249	0.121	0.134	0.091	---	---	1.35	1964
1965	---	---	0	8.05	7.05	3.26	0.844	0.382	4.34	0.981	---	---	2.65	1965
1966	---	---	3.69	8.83	9.81	1.81	0.571	1.27	0.234	0.201	---	---	3.29	1966
1967	---	---	0.032	13.7	10.5	1.26	0.329	0.184	0.056	0.358	---	---	3.26	1967
1968	---	---	0.828	2.77	2.84	1.27	1.83	1.85	1.09	0.706	---	---	1.62	1968
1969	---	---	0.122	13.9	5.93	4.44	0.572	0.709	0.867	---	---	---	3.81	1969
1970	---	---	0.202	11.0	19.5	4.26	1.67	0.367	0.773	1.10	---	---	4.87	1970
1971	---	---	0.031	8.03	1.84	15.7	3.61	0.891	0.874	3.08	---	---	4.27	1971
1972	---	---	0.890	18.4	5.77	1.14	0.382	0.285	0.222	0.442	---	---	3.37	1972
1973	---	---	1.08	1.30	1.56	2.78	0.367	0.576	1.49	1.87	---	---	1.34	1973
1974	---	---	0.314	21.6	20.7	3.72	0.769	0.386	0.436	0.430	---	---	6.01	1974
1975	---	---	0.153	7.89	8.32	4.59	0.721	6.18	38.0	8.46	---	---	9.21	1975
1976	---	---	0.649	28.2	6.16	5.47	0.809	0.285	0.280	0.481	---	---	6.32	1976
1977	---	---	0.098	1.25	1.75	0.717	3.77	0.576	3.96	1.83	---	---	1.70	1977
1978	---	---	0.355	8.65	2.30	0.975	0.402	0.136	0.635	0.536	---	---	1.85	1978
1979	---	---	0.083	20.5	20.8	3.59	0.840	0.292	0.377	0.385	---	---	5.80	1979
1980	---	---	0.132	7.04	0.581	0.208	0.243	1.89	1.88	1.18	---	---	1.80	1980
1981	---	---	0.650	3.13	3.56	4.48	0.871	0.508	0.359	0.772	---	---	1.76	1981
1982	---	---	0.148	10.3	3.87	0.973	0.448	0.273	0.238	1.08	---	---	2.14	1982
1983	---	---	0.109	13.3	8.59	3.06	3.76	0.278	0.121	0.327	---	---	3.43	1983
1984	---	---	0.721	2.10	2.40	4.59	0.441	0.052	0.192	1.52	---	---	1.48	1984
MEAN	---	---	0.511	9.72	5.80	4.86	1.55 R	0.898R	1.80 R	1.04 R	1.98	---	3.05	MEAN

LOCATION - LAT 50 56 40 N, LONG 99 31 15 W. DRAINAGE AREA, 874 km². NATURAL FLOW.

R - REVISED SINCE JAN 1980

TURTLE RIVER NEAR LAURIER - STATION NO. 05LJ007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1927	---	---	---	---	1927
1928	---	48.4 ON JUN 21	---	---	1928
1948	---	---	---	---	1948
1949	---	17.8 B ON APR 4	---	---	1949
1950	---	45.9 ON JUN 8	---	---	1950
1951	---	37.4 ON APR 28	---	---	1951
1952	---	34.0 B ON APR 6	0 ON AUG 21 *	---	1952
1953	---	88.0 E ON JUN 6	---	---	1953
1954	---	51.5 ON JUN 8	---	---	1954
1955	---	78.0 ON JUN 18	---	---	1955
1956	---	82.0 ON JUN 20	---	---	1956
1957	---	61.4 ON APR 25	0.113B ON MAR 1	84 800	1957
1958	13.1 AT 23:30 CST ON JUL 9	12.3 B ON MAR 31	0 A ON AUG 19	33 200R	1958
1959	21.5 AT 05:00 CST ON MAY 4	17.7 ON MAY 4	0 B ON MAR 1	32 600R	1959
1960	45.0B AT 03:30 CST ON APR 13	42.5 B ON APR 13	0.057E ON MAR 1	85 000	1960
1961	---	7.42A ON MAY 7	0 B ON MAR 1	8 750	1961
1962	27.0 AT 22:50 CST ON MAY 30	20.8 ON MAY 31	0 B ON MAR 1	23 600	1962
1963	37.4B AT 18:25 CST ON APR 6	34.5 B ON APR 6	0 B ON MAR 1	85 400	1963
1964	---	25.7 B ON APR 12	0 B ON MAR 1	26 800	1964
1965	35.4B AT 12:30 CST ON APR 13	30.0 B ON APR 13	0 B ON MAR 1	80 200	1965
1966	47.8 AT 08:15 CST ON MAY 5	41.8 ON MAY 5	0.085B ON MAR 1	83 600	1966
1967	---	71.5 B ON APR 16	0 B ON SEP 9	89 400	1967
1968	18.8 AT 23:45 CST ON JUL 1	12.1 ON APR 21	0.042B ON MAR 1	34 400	1968
1969	84.1B AT 20:10 CST ON APR 12	78.0 B ON APR 12	0.122B ON MAR 1	78 400	1969
1970	85.8B AT 02:45 CST ON APR 30	53.1 B ON APR 30	0.12B ON SEP 10	103 000	1970
1971	98.3 AT 20:55 CST ON JUN 8	64.4 ON JUN 7	0.031B ON MAR 1	80 400	1971
1972	---	41.8 B ON APR 12	0.017 ON SEP 1	71 400	1972
1973	17.2 AT 22:50 CST ON JUN 20	13.4 ON JUN 21	0.082 ON JUL 12	28 400	1973
1974	114 B AT 22:45 CST ON APR 20	103 B ON APR 20	0.18B ON AUG 10	127 000	1974
1975	280 AT 17:28 CST ON SEP 19 *	227 ON SEP 20 *	0.183B ON MAR 1	185 000	1975
1976	87.1B AT 22:30 CST ON APR 7	64.4 ON APR 8	0.07B ON SEP 12	134 000	1976
1977	88.5 AT 05:20 CST ON JUL 12	61.0 ON JUL 12	0.081B ON MAR 1	36 100	1977
1978	---	18.4 B ON APR 18	0.03I ON AUG 13	35 200	1978
1979	86.8 AT 00:45 CST ON APR 24	61.3 ON APR 24	0.083B ON MAR 1	123 000	1979
1980	21.7 AT 05:42 CST ON APR 8	20.8 B ON APR 8	0.00B ON AUG 2	33 800	1980
1981	18.8 AT 01:05 CST ON JUN 15	14.0 ON JUN 15	0 B ON MAR 1	37 700	1981
1982	44.8B AT 11:52 CST ON APR 15	38.2 B ON APR 15	0 B ON MAR 1	45 400	1982
1983	---	44.7 B ON APR 21	0.07B ON SEP 28	72 800	1983
1984	49.5 AT 21:28 CST ON JUN 23	38.4 ON JUN 23	0.00I ON AUG 31	31 800	1984
				84 700R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980

TURTLE RIVER NEAR STE. ROSE DU LAC - STATION NO. 05LJ013

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	---	---	---	---	---	---	---	---	---	1948
1949	---	---	---	8.73	1.87	2.87	1.98	0.388	0.289	0.257	---	---	---	1949
1950	---	---	---	---	18.8	11.8	6.17	3.19	1.55	1.35	---	---	---	1950
1951	---	---	---	11.8	5.61	2.40	1.14	0.883	0.708	1.12	---	---	---	1951
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	---	MEAN

LOCATION - LAT 51 03 35 N, LONG 98 31 50 W. DRAINAGE AREA, 1 080 km^2. NATURAL FLOW

TURTLE RIVER NEAR STE. ROSE DU LAC - STATION NO. 05LJ013

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	84.3 ON APR 23	---	---	1948
1949	---	33.0B ON APR 6	---	---	1949
1950	---	88.8 ON JUN 10 *	---	---	1950
1951	---	48.4 ON APR 28	---	---	1951
				---	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

TURTLENEAD CREEK ABOVE DELORAINE RESERVOIR - STATION NO. 05NG018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1984	---	---	0	0.873	0.844	0.028	0.010	0	0	0	---	---	0.155	1984
1985	---	---	0	0.883	0.283	0.301	0.338	0.042	0.073	0.088	---	---	0.205	1985
1986	---	---	0.301	0.504	0.288	0.047	0.034	0	0	0.003	---	---	0.142	1986
1987	---	---	0.018	0.148	0.128	0.017	0	0	0	0	---	---	0.028	1987
1988	---	---	0.021	0.028	0.023	0.008	0.014	0.188	0.025	0.014	---	---	0.042	1988
1989	---	---	0	2.28	0.174	0.028	0.104	0.002	0	0.002	---	---	0.330	1989
1970	---	---	0	0.885	0.518	0.018	0	0	0	0	---	---	0.137	1970
1971	---	---	0.002	0.871	0.027	0.870	0.052	0.005	0.018	0.057	---	---	0.188	1971
1972	---	---	0.778	1.84	0.233	0.189	0.005	0.013	0	0	---	---	0.342	1972
1973	---	---	0.076	0.008	0.007	0.084	0.017	0.017	0	0.010	---	---	0.024	1973
1974	---	---	0	1.80	0.782	0.155	0.025	0	0	0	---	---	0.308	1974
1975	---	---	0	1.79	0.808	0.148	0.008	0	0.088	0.182	---	---	0.347	1975
1976	---	---	0.118	2.38	0.170	0.030	0.004	0	0	0	---	---	0.332	1976
1977	---	---	0.004	0.008	0.011	0	0	0	0	0	---	---	0.003	1977
1978	---	---	0.017	0.084	0.018	0.010	0.008	0	0	0	---	---	0.015	1978
1979	---	---	0	0.347	0.187	0.029	0	0	0	0	---	---	0.087	1979
1980	---	---	0.008	0.038	0.002	0	0	0.001	0.008	0.010	---	---	0.008	1980
1981	---	0.143	0.038	0.015	0.010	0.003	0	0	0	0	---	---	0.008	1981
1982	---	---	0.038	0.488	0.074	0.029	0	0	0	0	---	---	0.080	1982
1983	---	---	0.048	0.624	0.128	0.024	0.005	0	0	0	---	---	0.102	1983
1984	---	---	0.088	0.015	0.118	0.007	0	0	0	0	---	---	0.026	1984
MEAN	---	0.143	0.073	0.881	0.208	0.088	0.024	0.013	0.010	0.015	---	---	0.137	MEAN

LOCATION - LAT 49 07 59 N DRAINAGE AREA, 75.1 km²
LONG 100 23 57 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.844 AND 0 m³/s OCCURRED IN FEB

TURTLENEAD CREEK ABOVE DELORAINE RESERVOIR - STATION NO. 05NG018

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1984	---	2.89 ON MAY 8	0B ON MAR 1 *	3 310	1984
1985	---	1.58 B ON APR 12	0B ON MAR 1	4 340	1985
1986	---	1.56 ON APR 6	0B ON MAR 1	3 020	1986
1987	---	0.371 ON APR 30	0B ON MAR 1	823	1987
1988	---	1.23 ON AUG 24	0B ON MAR 1	880	1988
1989	---	8.82 ON APR 9	0B ON MAR 1	6 770	1989
1970	---	3.20 ON APR 28	0B ON MAR 1	2 810	1970
1971	---	4.78 ON APR 7	0B ON MAR 1	3 840	1971
1972	---	2.74 ON APR 16	0B ON MAR 1	7 240	1972
1973	---	0.413 ON AUG 21	0B ON MAR 1	517	1973
1974	---	5.52 B ON APR 21	0B ON MAR 1	6 480	1974
1975	---	8.34 ON APR 26 *	0B ON MAR 1	7 340	1975
1976	---	4.64 ON APR 10	0 ON JUL 15	7 030	1976
1977	---	0.034 ON MAY 6	0B ON MAR 1	59.4	1977
1978	---	0.2948 ON MAR 31	0B ON MAR 1	312	1978
1979	---	3.88 B ON APR 19	0B ON MAR 1	1 420	1979
1980	---	0.1388 ON APR 8	0B ON MAR 1	178	1980
1981	---	0.0948 ON MAR 1	0 ON JUN 28	189	1981
1982	3.53 AT 17:51 CST ON APR 12 *	3.28 B ON APR 13	0B ON MAR 1	1 700	1982
1983	2.558 AT 18:14 CST ON APR 8	1.87 B ON APR 8	0 ON JUN 27	2 150	1983
1984	1.00 AT 19:57 CST ON MAR 24	0.831 ON MAR 24	0B ON MAR 1	542	1984
				3 910	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

TURTLENEAD CREEK BELOW DELORAINE RESERVOIR - STATION NO. 05NG017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1984	---	---	0	0.252	0.388	0.087	0.048	0	0.001	0	---	---	0.091	1984
1985	---	---	0	0.518	0.413	0.252	0.175	0.015	0.070	0.084	---	---	0.180	1985
1986	---	---	0.330	0.531	0.479	0.039	0.028	0	0	0	---	---	0.178	1986
1987	---	---	0.001	0.117	0.124	0.001	0	0	0	0	---	---	0.030	1987
1988	---	---	0.000	0.010	0.005	0.001	0	0.184	0.007	0.005	---	---	0.028	1988
1989	---	---	0	1.80	0.178	0.016	0.123	0.001	0	0.004	---	---	0.237	1989
1970	---	---	0	0.826	0.513	0.020	0.002	0	0	0	---	---	0.157	1970
1971	---	---	0.004	0.584	0.057	0.502	0.072	0	0.003	0.028	---	---	0.154	1971
1972	---	---	0.606	0.950	0.255	0.187	0.012	0.008	0	0.002	---	---	0.251	1972
1973	---	---	0.024	0.020	0.035	0.050	0.007	0.006	0.002	0.002	---	---	0.020	1973
1974	---	---	0.004	1.48	0.782	0.158	0	0	0	0	---	---	0.300	1974
1975	---	---	0	1.48	0.673	0.225	0.002	0.001	0.105	0.270	---	---	0.287	1975
1976	---	---	0.113	2.38	0.272	0.017	0	0	0	0	---	---	0.343	1976
MEAN	---	---	0.084	0.813	0.343	0.118	0.038	0.015	0.014	0.030	---	---	0.180	MEAN

LOCATION - LAT 49 08 43 N DRAINAGE AREA, 79.5 km²
LONG 100 28 03 W REGULATED

TURTLEHEAD CREEK BELOW DELORAINE RESERVOIR - STATION NO. 05NE017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1984	---	0.881 ON MAY 7	0B ON MAR 1 *	1 920	1984
1985	---	1.03 ON APR 14	0B ON MAR 1	4 030	1985
1986	---	1.29 ON APR 2	0B ON MAR 1	3 710	1986
1987	---	0.388 ON APR 30	0B ON MAR 1	843	1987
1988	---	1.42 ON AUG 18	0B ON MAR 1	538	1988
1989	---	3.85 ON APR 9	0B ON MAR 1	5 010	1989
1970	---	3.45 ON APR 29	0B ON MAR 1	3 320	1970
1971	---	2.83 B ON APR 9	0B ON MAR 1	3 280	1971
1972	---	1.74 ON APR 17	0B ON MAR 1	5 310	1972
1973	---	0.224 ON JUN 21	0B ON MAR 1	413	1973
1974	---	5.18 ON APR 21	0B ON MAR 1	6 330	1974
1975	---	5.46 ON APR 28 *	0B ON MAR 1	7 780	1975
1976	---	4.98 ON APR 6	0E ON JUN 20	7 280	1976
				3 610	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TURTLEHEAD CREEK NEAR DELORAINE - STATION NO. 05NE011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1938	---	---	---	---	0.021	---	---	---	---	---	---	---	---	1938
1959	---	---	0.078	0.035	0.008	0.002	0	0.057	0.018	1.54	---	---	0.224	1959
1960	---	---	0.018	2.18	0.938	0.335	0	0	0	0	---	---	0.428	1960
1961	---	---	0.078	0.011	0.028	0	0	0	0	0	---	---	0.015	1961
1962	---	---	0.008	0.148	0.025	0.088	0.003	0	0	0	---	---	0.034	1962
1963	---	---	0.087	0.002	0.002	0.180	0	0	0	0	---	---	0.029	1963
MEAN	---	---	0.048	0.478	0.188	0.119	0.001	0.015	0.004	0.308	---	---	0.148	MEAN

LOCATION - LAT 49 11 18 N
LONG 100 28 03 W
DRAINAGE AREA, 93.8 km^2
NATURAL FLOW

TURTLEHEAD CREEK NEAR DELORAINE - STATION NO. 05NE011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1938	---	---	---	---	1938
1959	---	4.02 ON OCT 17	0B ON MAR 1 *	4 740	1959
1960	---	4.53 ON MAY 27 *	0B ON MAR 1	9 030	1960
1961	---	0.486 ON MAR 21	0 ON MAR 1	305	1961
1962	---	1.03 ON APR 6	0B ON MAR 1	726	1962
1963	---	1.09 ON JUN 13	0 ON MAR 27	803	1963
				3 090	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER AT TIMBERTON - STATION NO. 05LJ024

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	0.316	3.89	4.85	1.00	0.884	1.11	0.189	0.105	---	---	1.45	1957
1958	---	---	0.380	0.847	0.218	0.131	0.070	0.018	0.028	0.080	---	---	0.192	1958
1959	---	---	0	0.092	0.408	1.80	2.79	0.813	0.433	0.521	---	---	0.828	1959
1960	---	---	0.533	1.41	3.16	5.02	1.13	0.322	0.182	0.058	---	---	1.47	1960
1961	---	---	0.108	0.154	0.183	0.038	0.308	0.228	0.087	0.117	---	---	0.151	1961
1962	---	---	0.007	0.278	0.208	0.134	0.019	0.006	0.006	0.014	---	---	0.082	1962
1963	---	---	0.036	0.381	0.118	0.124	0.183	0.012	0.008	0.008	---	---	0.103	1963
1964	---	---	0.042	0.148	0.178	0.022	0.009	0.548	0.008	0.011	---	---	0.121	1964
1965	---	---	0.028	0.185	0.238	0.083	0.085	0.281	0.288	0.778	---	---	0.241	1965
1966	---	---	0.804	0.902	1.88	2.32	2.87	0.582	0.257	0.243	---	---	1.22	1966
1967	---	---	0.400	0.721	0.879	0.183	0.080	0.037	0.137	0.173	---	---	0.302	1967
1968	---	---	0.418	0.441	0.185	0.183	0.174	0.085	0.034	0.018	---	---	0.186	1968
1969	---	---	0.348	0.380	0.118	0.185	0.433	0.238	0.085	0.280	---	---	0.268	1969
1970	---	---	0.388	0.707	8.25	4.02	2.98	1.80	0.882	0.808	---	---	2.17	1970
1971	---	---	0.387	1.22	1.24	1.28	1.08	0.431	0.185	0.740	---	---	0.808	1971
1972	---	---	0.788	1.08	2.82	1.82	0.873	0.220	0.108	0.238	---	---	0.848	1972
1973	---	---	0.180	1.01	0.184	0.478	1.00	0.838	0.808	1.38	---	---	0.885	1973
1974	---	---	0.443	1.43	8.18	8.82	1.77	0.881	0.272	0.488	---	---	2.88	1974
1975	---	---	0.248	1.18	7.02	5.83	2.88	0.838	1.34	3.08	---	---	2.88	1975
1976	---	---	0.447	3.87	2.88	10.8	---	---	---	---	---	---	---	1976
MEAN	---	---	0.388	0.830	3.10	2.08	0.888	0.471	0.287	0.488	---	---	0.888	MEAN

LOCATION - LAT 51 13 51 N
LONG 100 57 43 W
DRAINAGE AREA, 741 km^2
REGULATED

VALLEY RIVER AT TIMBERTON - STATION NO. 05LJ024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	5.83 ON APR 30	0.028 ON OCT 25	30 800	1957
1958	---	1.19 B ON APR 6	0 ON AUG 4 *	4 080	1958
1959	---	4.78 ON JUN 30	0 B ON MAR 1	17 800	1959
1960	---	11.6 ON MAY 31	0.020 ON SEP 14	31 100	1960
1961	---	0.880 ON JUL 17	0 ON JUN 29	3 180	1961
1962	---	1.35 ON APR 23	0 B ON MAR 1	1 730	1962
1963	---	0.5728 ON APR 16	0.008 ON AUG 11	2 190	1963
1964	---	1.58 E ON AUG 9	0.008 ON SEP 22	2 670	1964
1965	---	1.00 ON OCT 17	0.014 ON JUL 11	5 110	1965
1966	---	5.03 ON JUL 1	0.178 ON AUG 23	25 800	1966
1967	---	1.08 B ON APR 25	0.008 ON AUG 29	6 280	1967
1968	---	1.31 B ON APR 6	0.011 ON AUG 5	3 820	1968
1969	---	0.8682 ON JUN 29	0.027 ON SEP 13	5 210	1969
1970	9.71 AT 07:01 CST ON MAY 18	9.29 ON MAY 18	0.3688 ON MAR 1	45 800	1970
1971	3.36 AT 17:08 CST ON APR 24	2.81 ON APR 24	0.085 ON SEP 25	17 100	1971
1972	6.87 AT 01:34 CST ON MAY 21	5.38 ON MAY 21	0.037 ON SEP 18	20 100	1972
1973	3.848 AT 09:47 CST ON APR 23	3.26 B ON APR 23	0.076 ON JUN 2	14 800	1973
1974	12.4 AT 14:59 CST ON MAY 28	12.3 ON MAY 28	0.093 ON SEP 18	64 700	1974
1975	12.5 AT 09:19 CST ON MAY 11 *	11.1 ON MAY 11	0.2498 ON MAR 1	55 300	1975
1976	---	21.0 E ON JUN 24 *	---	---	1976
				18 300	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER AT VALLEY RIVER - STATION NO. 05LJ004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	---	5.65	---	---	1912
1913	---	---	---	45.3	18.6	7.22	41.1	8.07	3.02	1.85	1.16	0.263	---	1913
1914	0.113	0	0.057	5.24	31.2	8.06	1.92	0.337	0.442	0.576	0.336	0.227	4.08	1914
1915	0	0	0	2.27	1.50	2.16	2.86	0.253	0.588	1.06	0.545	0	0.814	1915
1916	0.028	0.028	0.340	13.0	12.3	22.5	13.3	3.06	1.75	1.73	1.41	0.142	5.78	1916
1917	0	0	0	10.5	23.6	9.84	14.1	2.30	1.87	0.951	0.726	0.108	5.37	1917
1918	0	0	5.87	5.45	7.88	3.08	2.33	2.51	0.883	0.818	0.752	0.192	2.48	1918
1919	0.100	0.057	0.080	8.14	8.54	2.41	6.84	1.20	1.06	1.05	0.488	0.110	2.88	1919
1920	---	---	---	---	28.4	8.25	2.27	0.803	1.24	1.28	---	---	---	1920
1921	---	---	---	---	15.3	38.6	6.12	2.34	6.02	8.36	11.8	---	---	1921
1922	---	---	1.24	38.8	66.4	11.7	2.64	0.851	1.28	---	---	---	---	1922
1923	---	---	---	---	---	---	---	---	---	1.88	1.42	---	---	1923
1924	---	---	---	---	10.5	7.45	3.58	2.08	1.40	3.34	3.08	---	---	1924
1925	---	---	---	50.7	11.4	18.5	10.4	1.32	0.481	1.12	---	---	---	1925
1926	---	---	---	---	6.42	2.57	1.30	0.308	2.31	4.83	---	---	---	1926
1927	---	---	---	---	34.7	22.8	27.1	7.35	5.67	4.08	---	---	---	1927
1928	---	---	---	10.8	13.8	28.7	23.0	5.48	2.05	---	---	---	---	1928
MEAN	0.040	0.014	1.05	18.1	19.4	12.8	10.7	2.83	2.01	2.28	2.80	0.151	3.85	MEAN

LOCATION - LAT 51 15 10 N DRAINAGE AREA, 2 720 km^2
LONG 100 08 40 W NATURAL FLOW

VALLEY RIVER AT VALLEY RIVER - STATION NO. 05LJ004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	101 ON JUL 13	---	---	1913
1914	---	88.3 ON MAY 8	0 B ON FEB 1 *	128 000	1914
1915	---	5.87 ON JUL 20	0 B ON JAN 1	28 800	1915
1916	---	84.3 ON JUN 27	0.0288 ON JAN 1	183 000	1916
1917	---	41.3 ON MAY 10	0 B ON JAN 1	169 000	1917
1918	---	20.0 B ON MAR 29	0 B ON JAN 1	78 300	1918
1919	---	20.0 ON APR 10	0.0288 ON DEC 19	84 500	1919
1920	---	105 B ON APR 22	---	---	1920
1921	---	118 ON JUN 17	---	---	1921
1922	---	144 ON MAY 5 *	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	93.7 ON APR 7	---	---	1925
1926	---	---	---	---	1926
1927	---	100 ON APR 18	---	---	1927
1928	---	73.8 ON JUN 22	---	---	1928
				112 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	40.7	4.38	18.7	5.10	1.01	0.501	---	---	---	1948
1949	---	---	---	7.38	2.05	5.14	2.15	1.40	0.041	0.047	---	---	---	1949
1950	---	---	---	---	5.47	5.28	3.08	1.80	0.114	1.04	---	---	---	1950
1951	---	---	---	17.8	19.3	2.59	3.26	2.09	2.71	2.73	---	---	---	1951
1952	---	---	---	20.1	3.38	1.82	0.467	0.033	0.308	0.259	---	---	---	1952
1953	---	---	---	13.1	9.49	25.4	17.7	5.44	2.82	4.11	4.84	---	---	1953
1954	---	---	---	20.5	22.2	44.6	24.8	2.85	9.27	11.2	4.81	---	---	1954
1955	---	---	---	31.0	23.8	13.1	4.88	1.87	0.378	0.881	---	---	---	1955
1956	---	---	---	13.4	40.6	13.8	13.4	3.58	2.28	1.30	---	---	---	1956
1957	---	---	1.07	28.9	13.6	3.08	1.17	1.14	0.383	0.348	---	---	5.15	1957
1958	---	---	1.39	5.55	1.04	0.575	0.408	0.035	0.015	0.024	---	---	1.24	1958
1959	---	---	1.17	5.52	2.08	5.57	5.15	0.505	0.007	0.020	---	---	2.84	1959
1960	---	---	0.283	28.7	5.52	5.21	1.32	0.295	0.036	0	---	---	5.01	1960
1961	---	---	0.288	1.10	0.844	0.080	0	0	0	0	---	---	0.285	1961
1962	---	---	0	4.58	1.13	0.511	0.022	0.001	0.001	0	---	---	0.771	1962
1963	---	---	1.26	4.15	1.35	1.76	1.20	0.048	0.001	0	---	---	1.22	1963
1964	---	---	0	3.58	2.18	0.081	0.007	0	0	0	---	---	0.775	1964
1965	---	---	0	7.77	3.15	1.31	1.76	1.84	1.87	1.33	---	---	2.34	1965
1966	---	---	0.748	23.7	5.74	4.84	5.10	0.882	0.290	0.126	---	---	5.61	1966
1967	---	---	0.287	25.1	12.8	0.854	0.184	0.022	0	0.002	---	---	4.88	1967
1968	---	---	2.06	5.28	0.583	0.128	0.018	0.015	0.008	0.003	---	---	1.12	1968
1969	---	---	0.105	14.1	1.14	0.228	2.02	0.904	0.081	0.585	---	---	2.38	1969
1970	---	---	0.487	28.5	22.1	7.70	5.51	2.91	0.445	0.889	---	---	8.18	1970
1971	---	---	0.781	24.3	3.73	8.42	2.42	0.730	0.088	1.15	---	---	5.13	1971
1972	---	---	2.56	21.2	8.68	2.61	0.854	0.425	0.557	0.808	---	---	4.87	1972
1973	---	---	0.888	1.42	0.935	1.84	1.22	0.548	1.40	2.22	---	---	1.28	1973
1974	---	---	0.804	48.8	38.4	13.0	2.14	0.881	0.428	0.573	---	---	12.7	1974
1975	---	---	0.433	24.8	18.8	11.8	3.75	1.32	5.78	4.73	---	---	8.82	1975
1976	---	---	1.32	30.0	7.04	31.3	9.38	1.88	1.14	0.201	---	---	10.1	1976
1977	---	---	0.384	2.44	1.32	0.702	0.628	0.474	1.20	3.45	---	---	1.32	1977
1978	---	---	0.844	12.3	3.23	1.19	0.581	0.381	0.270	0.279	---	---	2.33	1978
1979	---	---	0.280	44.8	22.3	12.3	1.85	0.350	0.233	0.287	---	---	10.2	1979
1980	---	---	0.283	13.0	1.22	0.213	0.054	0.132	0.070	0.108	---	---	1.85	1980
1981	---	---	1.87	2.21	1.28	1.25	3.16	0.269	0.045	0.074	---	---	1.23	1981
1982	---	---	0.046	4.48	1.48	0.484	0.285	0.884	0.117	0.814	---	---	1.00	1982
1983	---	---	0.382	34.2	8.98	15.4	8.84	1.22	0.267	0.325	---	---	8.82	1983
1984	---	---	2.11	3.81	3.24	7.29	5.75	0.881	0.187	0.430	---	---	2.91	1984
MEAN	---	---	0.788	18.4	10.1	7.33	4.08	1.18	0.921	1.11	4.58	---	4.18	MEAN

LOCATION - LAT 51 18 45 N DRAINAGE AREA, 2 870 km²
LONG 100 00 38 W REGULATED

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1948	---	225 ON APR 28	---	---	1948
1949	---	24.8 B ON APR 7	0 ON SEP 28 *	---	1949
1950	---	84.3 B ON APR 20	---	---	1950
1951	---	56.6 B ON APR 7	---	---	1951
1952	---	47.3 B ON APR 6	0 ON AUG 22	---	1952
1953	---	95.7 ON JUN 4	---	---	1953
1954	---	89.2 ON JUL 1	---	---	1954
1955	---	89.4 B ON APR 7	---	---	1955
1956	---	75.3 ON MAY 8	---	---	1956
1957	---	84.1 ON APR 25	0 ON SEP 29	130 000	1957
1958	---	24.0 B ON APR 4	0 ON AUG 15	28 300	1958
1959	---	23.8 ON JUN 19	0 B ON MAR 1	80 100	1959
1960	---	80.7 ON APR 15	0 ON SEP 20	127 000	1960
1961	---	1.98 ON APR 25	0 B ON MAR 1	5 050	1961
1962	---	34.3 B ON APR 21	0 B ON MAR 1	16 300	1962
1963	---	8.58 ON APR 6	0 B ON MAR 1	25 800	1963
1964	---	16.7 B ON APR 17	0 B ON MAR 1	16 400	1964
1965	---	38.5 ON APR 15	0 B ON MAR 1	49 500	1965
1966	---	86.6 B ON APR 3	0 ON SEP 23	119 000	1966
1967	---	143 ON APR 28	0 ON AUG 16	103 000	1967
1968	---	16.2 B ON MAR 28	0.003 ON SEP 24	23 700	1968
1969	---	85.8 B ON APR 15	0 B ON MAR 1	80 000	1969
1970	118 AT 01:35 CST ON APR 27	110 ON APR 26	0.184 ON SEP 20	173 000	1970
1971	148 B AT 05:05 CST ON APR 12	130 B ON APR 13	0.031 ON SEP 23	109 000	1971
1972	---	80.0 B ON APR 16	0.258 ON AUG 13	85 800	1972
1973	5.10 AT 00:36 CST ON OCT 5	4.78 ON OCT 5	0.1188 ON MAR 15	28 600	1973
1974	289 AT 14:03 CST ON APR 20	262 ON APR 20	0.221 ON SEP 26	269 000	1974
1975	82.1 AT 18:00 CST ON APR 30	77.9 ON APR 30	0.4338 ON MAR 1	187 000	1975
1976	---	81.3 ON APR 7	0.105 ON OCT 18	214 000	1976
1977	---	4.93 ON APR 18	0.127 ON JUL 7	35 100	1977
1978	---	28.1 B ON APR 13	0.113 ON AUG 12	48 200	1978
1979	484 AT 09:41 CST ON APR 23 *	385 ON APR 23 *	0.048 ON OCT 10	215 000	1979
1980	---	38.3 B ON APR 10	0 ON JUL 30	38 200	1980
1981	48.1 AT 08:44 CST ON JUL 4	35.1 ON JUL 4	0.008 ON SEP 20	26 100	1981
1982	---	13.4 B ON APR 17	0 B ON MAR 1	21 200	1982
1983	333 AT 15:05 CST ON APR 25	291 ON APR 25	0.018 ON OCT 5	187 000	1983
1984	38.4 AT 21:33 CST ON JUN 26	28.2 ON JUN 26	0 ON AUG 28	61 800	1984
				67 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER NEAR GRANDVIEW - STATION NO. 05LJ021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	5.14	21.7	5.06	10.4	2.96	1.98	0.662	---	---	---	1958
1958	---	---	0.838	2.62	0.785	0.617	0.170	0.014	0.087	0.026	---	---	0.586	1958
1959	---	---	0.243	1.90	0.761	3.06	4.18	0.801	0.606	0.785	---	---	1.52	1959
1960	---	---	0.304	14.4	5.31	5.14	1.41	0.809	0.362	0.474	---	---	3.57	1960
1961	---	---	0.352	0.597	0.470	0.073	0.178	0.088	0.027	0.024	---	---	0.224	1961
1962	---	---	---	---	---	---	---	---	0	0	---	---	---	1962
1964	---	---	0.057	1.70	1.09	0.080	0	0.503	0.003	0	---	---	0.423	1964
1965	---	---	0.071	4.25	1.70	0.815	0.551	0.480	0.730	0.918	---	---	1.13	1965
1966	---	---	0.488	9.13	4.88	3.35	3.84	0.848	0.171	0.234	---	---	2.78	1966
1967	---	---	0.427	8.86	4.48	0.448	0.133	0.074	0.001	0.318	---	---	1.84	1967
1968	---	---	1.31	2.74	0.488	0.082	0.084	0.017	0.018	0	---	---	0.524	1968
1969	---	---	0.285	7.43	0.869	0.178	1.05	0.740	0.132	0.855	---	---	1.35	1969
1970	---	---	0.385	13.0	11.3	4.27	3.47	1.95	0.482	0.848	---	---	4.42	1970
1971	---	---	0.688	10.2	3.18	4.14	1.96	0.856	0.187	0.898	---	---	2.88	1971
1972	---	---	0.780	11.6	5.14	2.30	0.889	0.508	0.843	0.573	---	---	2.77	1972
1973	---	---	0.882	1.13	0.469	0.772	0.948	0.673	0.728	1.11	---	---	0.813	1973
1974	---	---	0.808	16.1	20.1	10.2	1.84	0.803	0.238	0.338	---	---	6.10	1974
1975	---	---	0.088	13.0	12.3	5.15	3.08	0.883	3.29	3.13	---	---	5.48	1975
1976	---	---	0.881	14.1	5.15	15.5	6.26	1.59	1.22	0.219	---	---	5.84	1976
1977	---	---	0.811	1.07	0.883	0.406	0.427	0.381	0.788	2.11	---	---	0.818	1977
1978	---	---	0.728	8.84	1.82	0.935	0.523	0.508	0.250	0.289	---	---	1.48	1978
1979	---	---	0.170	14.3	11.8	10.4	2.04	0.281	0.888	0.401	---	---	4.85	1979
1980	---	---	0.382	5.87	0.838	0.138	0.088	0.181	0.017	0.191	---	---	0.931	1980
1981	---	---	0.630	0.781	0.628	0.873	2.84	0.341	0.043	0.105	---	---	0.722	1981
1982	---	---	0.180	1.88	0.882	0.278	0.128	0.389	0.134	0.718	---	---	0.582	1982
1983	---	---	0.391	10.2	4.81	5.34	5.27	1.13	0.127	0.388	---	---	3.83	1983
1984	---	---	1.07	1.88	1.43	2.42	4.37	0.542	0.387	0.185	---	---	1.82	1984
MEAN	---	---	0.479	5.94	4.88	3.83	2.12	0.874	0.482	0.571	---	---	2.25	MEAN

LOCATION - LAT 51 11 10 N DRAINAGE AREA, 1 720 km²
LONG 100 41 40 W REGULATED

VALLEY RIVER NEAR GRANDVIEW - STATION NO. 05LJ021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1958	---	48.2 ON MAY 5	---	---	1958
1958	---	5.268 ON APR 4	0 ON AUG 2 *	12 400	1958
1959	---	11.1 ON JUN 17	0.028 ON SEP 23	32 200	1959
1960	---	39.6 ON APR 12	0 ON SEP 11	75 500	1960
1961	---	1.51 ON JUL 18	0 ON JUL 4	4 740	1961
1962	---	---	0 ON AUG 21	---	1962
1964	---	3.178 ON APR 16	0 ON JUN 14	8 970	1964
1965	---	14.7 ON APR 14	0 ON JUL 10	25 200	1965
1966	---	23.6 ON APR 5	0.102 ON SEP 5	54 500	1966
1967	---	37.7 ON APR 27	0 ON SEP 3	38 800	1967
1968	---	5.498 ON MAR 27	0 ON AUG 15	12 400	1968
1969	---	48.7 B ON APR 13	0.005 ON SEP 20	28 700	1969
1970	---	48.4 B ON APR 25	0.281 ON SEP 20	93 800	1970
1971	---	57.6 ON APR 10	0.037 ON SEP 21	54 500	1971
1972	---	37.9 ON APR 17	0.161E ON OCT 30	58 800	1972
1973	---	5.86 ON AUG 28	0.218 ON AUG 19	17 200	1973
1974	---	58.1 ON APR 20 *	0.026 ON SEP 19	128 000	1974
1975	---	50.4 ON APR 21	0.088B ON MAR 1	115 000	1975
1976	---	38.2 B ON APR 6	0.193 ON OCT 8	117 000	1976
1977	---	2.87 ON OCT 13	0.071 ON JUL 10	17 300	1977
1978	---	20.2 B ON APR 18	0.086 ON SEP 27	31 300	1978
1979	69.1 B AT 05:21 CST ON APR 22 *	55.7 B ON APR 22	0 ON AUG 31	105 000	1979
1980	---	15.0 B ON APR 8	0 ON JUN 24	19 500	1980
1981	58.9 AT 12:48 CST ON JUL 2	35.0 ON JUL 2	0 ON SEP 13	15 300	1981
1982	---	7.828 ON APR 18	0 ON JUL 10	12 300	1982
1983	---	78.4 A ON APR 24	0.074 ON SEP 23	74 700	1983
1984	8.83 AT 20:11 CST ON JUL 2	5.88 ON JUL 3	0.049 ON OCT 10	34 200	1984
				47 700	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER WEST OF GRANDVIEW - STATION NO. 05LJ018

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1985	---	---	---	8.01	11.7	8.72	2.87	1.30	0.157	0.145	---	---	---	1985
MEAN	---	---	---	8.01	11.7	8.72	2.87	1.30	0.157	0.145	---	---	---	MEAN

LOCATION - LAT 51 11 05 N DRAINAGE AREA, 1 230 km²
LONG 100 51 08 W NATURAL FLOW

VALLEY RIVER WEST OF GRANDVIEW - STATION NO. 05LJ018

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1985	---	17.80 ON APR 8 *	---	---	1985
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

VERMILION RIVER NEAR DAUPHIN - STATION NO. 05LJ012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	13.8	0.848	3.88	0.880	0.142	0.151	---	---	---	1948
1949	---	---	---	5.08	1.01	2.10	2.38	0.528	0.053	0.115	---	---	---	1949
1950	---	---	---	5.43	11.8	8.83	4.30	0.885	0.208	0.880	---	---	---	1950
1951	---	---	---	10.0	4.41	1.18	0.495	0.330	0.480	1.85	---	---	---	1951
1952	---	---	0.332	11.3	1.18	0.373	0.178	0.103	1.31	0.398	---	---	1.88	1952
1953	---	---	---	10.8	8.85	18.8	3.01	0.788	1.02	1.58	0.823	---	---	1953
1954	---	---	---	5.00	5.80	8.42	4.28	0.780	2.88	3.11	1.08	---	---	1954
1955	---	---	---	12.7	8.70	5.55	0.851	0.158	0.110	0.225	---	---	---	1955
1956	---	---	0.028	8.82	10.2	15.2	7.80	1.14	0.743	0.587	---	---	5.28	1956
1957	---	---	0.320	18.5	5.32	2.23	0.372	0.241	0.218	0.233	---	---	3.38	1957
1958	---	---	0.784	2.28	0.430	0.182	0.384	0.054	0.038	0.045	---	---	0.516	1958
1959	---	---	0.478	1.84	2.87	1.70	0.575	0.048	0.087	0.457	---	---	1.00	1959
1960	---	---	0.113	14.2	8.88	1.85	0.092	0.088	0.034	0.039	---	---	3.24	1960
1961	---	---	0.032	0.805	0.787	0.088	0.021	0.020	0.083	0.122	---	---	0.202	1961
1962	---	---	0.024	3.81	0.838	0.473	0.088	0.082	0.121	0.070	0.104	---	0.827	1962
1963	---	---	1.31	8.88	2.75	4.05	1.01	0.101	0.187	0.088	---	---	2.03	1963
1964	---	---	0.028	8.88	3.38	0.204	0.184	0.025	0.038	0.132	---	---	1.32	1964
1965	---	---	0.100	7.32	4.88	2.51	0.788	0.184	5.70	1.28	---	---	2.82	1965
1966	---	---	2.10	10.0	8.35	0.888	0.811	0.838	0.122	0.208	---	---	2.89	1966
1967	---	---	0.108	8.80	11.8	0.848	0.101	0.281	0.081	0.100	---	---	2.74	1967
1968	---	---	1.20	1.81	1.04	0.354	1.48	1.08	0.441	0.238	---	---	0.884	1968
1969	---	---	0.138	7.28	0.884	5.82	4.01	0.178	0.188	0.574	---	---	2.34	1969
1970	---	---	0.187	10.4	18.1	3.20	1.08	0.188	0.823	0.788	---	---	4.31	1970
1971	---	---	0.188	10.8	1.73	8.31	1.83	0.888	0.183	1.23	---	---	2.85	1971
1972	---	---	1.27	10.2	4.82	0.877	0.111	0.088	0.081	0.218	---	---	2.18	1972
1973	---	---	0.484	0.741	0.378	0.420	0.058	0.044	1.78	2.78	---	---	0.827	1973
1974	---	---	0.232	28.4	24.2	2.22	0.231	0.180	0.308	0.371	---	---	5.73	1974
1975	---	---	0.088	10.2	8.01	2.85	0.451	2.00	15.8	4.21	---	---	5.14	1975
1976	---	---	0.418	21.4	2.38	10.7	0.909	0.171	0.082	0.240	---	---	4.48	1976
1977	---	---	0.102	0.810	0.484	0.102	1.21	0.341	1.83	0.888	---	---	0.738	1977
1978	---	---	0.287	10.4	2.72	1.10	0.532	0.083	0.313	0.887	---	---	2.01	1978
1979	---	---	0.080	18.8	18.8	3.02	0.481	0.088	0.078	0.108	---	---	5.13	1979
1980	---	---	0.118	3.98	0.258	0.081	0.171	0.370	0.808	0.483	---	---	0.748	1980
1981	---	---	0.888	1.87	1.88	3.24	0.314	0.038	0.014	0.280	---	---	1.02	1981
1982	---	---	0.142	7.38	1.70	0.338	0.188	0.303	0.083	1.21	---	---	1.40	1982
1983	---	---	0.088	14.8	8.48	1.88	1.28	0.411	0.084	0.077	---	---	3.08	1983
1984	---	---	0.281	0.838	3.48	0.847	0.092	0.011	0.088	0.412	---	---	0.728	1984
MEAN	---	---	0.382	8.47	5.78	3.19	1.28	0.384	0.873	0.718	0.888	---	2.41	MEAN

LOCATION - LAT 51 11 00 N DRAINAGE AREA, 873 km^2
LONG 100 00 45 W REGULATED SINCE 1978

VERMILION RIVER NEAR DAUPHIN - STATION NO. 05LJ012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	88.3 ON APR 25	---	---	1948
1949	---	17.8 ON APR 12	---	---	1949
1950	---	41.1 ON MAY 14	---	---	1950
1951	---	48.7 ON APR 29	---	---	1951
1952	---	39.4 B ON APR 7	0 B ON MAR 1 *	39 400	1952
1953	---	75.0 ON JUN 3	---	---	1953
1954	---	34.5 ON JUN 9	---	---	1954
1955	---	37.9 ON MAY 5	---	---	1955
1956	---	148 ON JUN 19	0.028B ON MAR 1	112 000	1956
1957	---	103 ON APR 25	0.085B ON MAR 1	71 600	1957
1958	---	7.58B ON MAR 29	0 B ON MAR 1	10 900	1958
1959	---	8.43 ON MAY 4	0 B ON MAR 1	21 300	1959
1960	---	44.5 ON MAY 27	0.034 ON AUG 28	68 600	1960
1961	---	2.41 ON MAY 9	0.00B ON AUG 7	4 280	1961
1962	---	26.2 ON APR 18	0.028B ON MAR 1	13 300	1962
1963	---	27.6 B ON APR 8	0 B ON MAR 1	43 000	1963
1964	---	22.6 ON APR 27	0 ON JUL 27	27 800	1964
1965	---	42.5 ON APR 12	0.003E ON MAR 1	59 800	1965
1966	---	40.6 B ON MAR 31	0.085B ON MAR 1	81 200	1966
1967	---	38.6 B ON APR 15	0 ON AUG 30	57 800	1967
1968	---	8.18 ON JUL 3	0 ON JUN 24	20 400	1968
1969	---	40.8 ON JUN 28	0.001 ON SEP 18	48 600	1969
1970	---	62.0 B ON APR 28	0.02B ON SEP 7	81 300	1970
1971	---	33.7 B ON APR 11	0.04O ON SEP 4	58 000	1971
1972	---	30.3 ON APR 22	0 ON SEP 14	48 700	1972
1973	---	13.5 ON OCT 4	0 ON AUG 1	17 500	1973
1974	---	170 ON APR 20 *	0 ON JUL 21	142 000	1974
1975	188 AT 01:04 CST ON SEP 20	153 ON SEP 20	0.04B ON JUL 18	109 000	1975
1976	---	87.2 ON JUN 14	0.037 ON SEP 18	84 500	1976
1977	---	8.71 ON JUL 13	0.00B ON JUL 8	15 700	1977
1978	---	28.8 B ON APR 10	0.02B ON SEP 8	42 800	1978
1979	209 AT 10:12 CST ON APR 22 *	184 ON APR 22	0 ON AUG 7	109 000	1979
1980	31.0 B AT 07:20 CST ON APR 5	27.6 B ON APR 5	0.004E ON SEP 3	15 800	1980
1981	11.2 AT 11:57 CST ON MAY 30	10.7 ON MAY 30	0 ON AUG 23	21 800	1981
1982	23.9 AT 11:30 CST ON APR 18	20.3 ON APR 18	0 B ON MAR 1	39 800	1982
1983	98.0 AT 12:32 CST ON APR 24	84.2 ON APR 24	0 ON SEP 18	65 300	1983
1984	9.09 AT 21:51 CST ON MAY 13	8.87 ON MAY 13	0 B ON MAR 1	15 400	1984
				51 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WASKADA CREEK NEAR CRANMER - STATION NO. 05NF014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	1.89	0.248	0.048	0.170	0	0	0	---	---	0.285	1974
1975	---	---	0	1.78	0.281	0.050	0	0	0.001	0.088	---	---	0.289	1975
1976	---	---	1.45	1.88	0.020	0	0	0	0	0	---	---	0.413	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.070	0	0	0	0	0	0	---	---	0.008	1978
1979	---	---	0	0.501	0.004	0	0	0	0	0	---	---	0.088	1979
1980	---	---	0	0.001	0	0	0	0	0.452	0.015	---	---	0.057	1980
1981	---	0.238	0.055	0	0	0	0	0	0	0	---	---	0.007	1981
1982	---	---	0.011	0.582	0	0.014	0	0	0	0.013	---	---	0.078	1982
1983	---	---	0.284	0.334	0.002	0	0	0	0	0	---	---	0.078	1983
1984	---	---	0.018	0.001	0.020	0	0	0	0	0.004	---	---	0.008	1984
MEAN	---	0.238	0.184	0.847	0.052	0.010	0.015	0	0.041	0.008	---	---	0.118	MEAN

LOCATION - LAT 49 07 40 N DRAINAGE AREA, 104 km^2
LONG 100 42 50 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.12 AND 0 m^3/s OCCURRED IN FEBRUARY

WASKADA CREEK NEAR CRANMER - STATION NO. 05NF014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	7.87 ON APR 11	0B ON MAR 1 *	5 810	1974
1975	---	8.78 ON APR 29	0B ON MAR 1	5 880	1975
1976	---	10.3 ON MAR 31 *	0B ON MAR 1	8 730	1976
1977	---	0 B ON MAR 1	0B ON MAR 1	0	1977
1978	---	0.858B ON APR 6	0B ON MAR 1	182	1978
1979	---	8.88 B ON APR 19	0B ON MAR 1	2 090	1979
1980	3.97 AT 20:21 CST ON SEP 13	3.33 ON SEP 14	0B ON MAR 1	1 210	1980
1981	---	0.500B ON MAR 1	0 ON MAR 22	181	1981
1982	8.87 AT 00:38 CST ON APR 13 *	8.82 ON APR 13	0B ON MAR 1	1 810	1982
1983	2.64B AT 11:10 CST ON APR 1	1.82 B ON MAR 31	0B ON MAR 1	1 880	1233
1984	1.45 AT 12:02 CST ON MAY 5	0.86B ON MAY 5	0B ON MAR 1	118	1984
				2 490	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WASKADA CREEK NORTH OF CRANMER - STATION NO. 05NF011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1985	---	---	0	0.161	0.189	0.051	0	0.121	0.121	0	---	---	0.075	1985
1986	---	---	0.251	0.018	0.123	0.037	0.383	0	0	0	---	---	0.091	1986
1987	---	---	0.150	0.076	0.024	0	0	0	0	0	---	---	0.031	1987
1988	---	---	0.013	0	0	0	0	0.022	0.015	0	---	---	0.006	1988
1989	---	---	0	1.35	0.014	0	0.013	0	0	0	---	---	0.189	1989
1990	---	---	0.253	0.532	0.086	0	0	0	0	0	---	---	0.108	1990
1991	---	---	0	0.055	0	0.380	0.184	0	0	0	---	---	0.075	1991
1992	---	---	0.337	0.142	0.001	0.438	0	0.002	0	0	---	---	0.114	1992
1993	---	---	0.011	0	0	0.003	0	0	0	0	---	---	0.002	1993
MEAN	---	---	0.113	0.287	0.044	0.099	0.058	0.016	0.015	0	---	---	0.074	MEAN

LOCATION - LAT 48 07 08 N DRAINAGE AREA, 88.1 km²
LONG 100 41 30 W NATURAL FLOW

WASKADA CREEK NORTH OF CRANMER - STATION NO. 05NF011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1985	---	2.09 ON AUG 27	0 ON MAR 1 *	1 550	1985
1986	---	1.14 ON JUL 8	0B ON MAR 1	1 930	1986
1987	---	0.7628 ON MAR 29	0B ON MAR 1	883	1987
1988	---	0.286 ON AUG 27	0B ON MAR 1	131	1988
1989	---	7.42 ON APR 10 *	0B ON MAR 1	3 870	1989
1990	---	3.11 ON MAR 26	0B ON MAR 1	2 240	1990
1991	---	2.73 ON JUN 16	0B ON MAR 1	1 880	1991
1992	---	3.66 ON JUN 15	0B ON MAR 1	2 410	1992
1993	---	0.159 ON MAR 12	0 ON MAR 1	37.0	1993
				1 570	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WATERHEN RIVER AT BERNARDIN'S FARM - STATION NO. 05LH002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1923	---	---	---	---	---	---	---	---	155	154	155	---	---	1923
1924	---	---	---	75.8	106	185	134	103	89.5	83.3	94.3	---	113	1924
1925	---	---	---	83.3	128	204	183	151	148	127	---	---	142	1925
1926	---	---	---	70.8	101	142	87.4	78.0	88.4	84.9	---	---	88.5	1926
1927	---	---	---	---	104	182	177	148	152	152	---	---	---	1927
1928	---	---	---	---	126	194	187	124	104	---	---	---	---	1928
MEAN	---	---	---	88.7	114	181	149	120	120	118	128	---	118	MEAN

LOCATION - LAT 51 48 50 N DRAINAGE AREA, 55 200 km²
LONG 98 32 00 W NATURAL FLOW

WATERHEN RIVER AT BERNARDIN'S FARM - STATION NO. 05LH002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1923	---	---	---	---	1923
1924	---	213 ON JUN 5	63.1 ON APR 28	2 080 000	1924
1925	---	384 ON JUN 21 *	43.38 ON APR 1	2 830 000	1925
1926	---	215 ON JUN 7	41.9 ON OCT 7 *	1 840 000	1926
1927	---	321 ON JUN 8	---	---	1927
1928	---	249 ON JUN 5	---	---	1928
				2 120 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WATERHEN RIVER AT MCCREERY'S FARM - STATION NO. 05LH004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1928	---	---	---	---	---	---	---	---	---	94.3	---	---	---	1928
1929	---	---	---	---	80.8	118	81.7	61.2	40.5	37.4	---	---	---	1929
1930	---	---	---	---	69.8	80.8	63.8	47.3	40.5	---	---	---	---	1930
MEAN	---	---	---	---	75.3	99.0	77.8	54.3	40.5	85.9	---	---	---	MEAN

LOCATION - LAT 51 50 00 N DRAINAGE AREA, 55 200 km²
LONG 98 33 00 W NATURAL FLOW

WATERHEN RIVER AT MCCREERY'S FARM - STATION NO. 05LN004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	102 ON JUN 15 *	---	---	1930
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

WATERHEN RIVER NEAR WATERHEN - STATION NO. 05LN005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1950	---	---	---	---	---	---	---	---	---	---	88.7	28.5	---	1950
1951	18.6	14.0	8.39	---	---	113	99.5	83.3	80.5	73.3	81.4	42.6	---	1951
1952	24.0	12.3	11.9	---	---	148	120	102	91.8	102	90.1	66.6	---	1952
1953	42.1	27.5	22.0	31.6	118	150	200	188	204	186	202	178	131	1953
1954	144	123	117	159	248	277	---	---	288	281	273	248	---	1954
1955	168	138	127	233	288	317	277	224	193	176	148	108 R	202 R	1955
1956	88.5 R	87.3 R	72.5 R	111	188	190	187	161	162	183	148	88.5	134 R	1956
1957	80.7	38.7	26.7	88.1	159	146	132	118	103	83.1	80.8	57.6	81.4	1957
1958	30.6	17.3	15.6	79.8	102	98.1	78.2	63.1	84.3	82.7	44.2	11.1	54.2	1958
1959	3.88	0.413	0.058	16.0	87.5	88.5	68.0	71.4	89.8	73.6	44.3	32.1	47.2	1959
1960	24.8	16.0	8.17	44.7	115	136	124	104	78.8	71.4	78.8	27.0	89.2	1960
1961	12.4	3.04	2.78	36.1	84.5	82.8	81.5	38.5	26.4	21.8	19.1	3.46	33.1	1961
1962	0.037	0	0	2.35	52.8	44.0	38.4	19.8	16.9	21.8	14.8	4.21	16.0	1962
1963	0.186	0.008	0.185	11.8	34.0	32.1	27.4	15.8	11.2	11.2	7.82	0.646	12.7	1963
1964	0.071	0.122	0.142	4.04	26.8	26.1	13.7	12.8	13.3	18.2	16.8	3.37	11.1	1964
1965	0.077	0.025	0	4.85	81.5	89.0	76.8	83.4	80.3	86.7	85.4	39.0	40.7	1965
1966	28.8	21.4	9.14	28.5	108	136	141	139	126	125	86.8	88.5	83.1	1966
1967	88.2	82.8	82.1	82.8	153	186	172	151	116	108	82.0	86.8	107	1967
1968	37.3	28.2	18.4	86.0	126	116	111	108	103	103	87.2	83.1	80.0	1968
1969	33.4	25.1	19.8	70.0	123	122	100	86.8	72.1	73.8	86.3	37.8	86.7	1969
1970	38.0	17.2	10.2	18.8	88.3	126	134	130	117	118	118	78.8	83.1	1970
1971	86.8	83.8	47.0	107	180	176	180	128	110	117	92.4	84.4	108	1971
1972	47.8	42.8	34.8	72.7	173	169	184	133	118	102	72.8	30.3	86.8	1972
1973	18.3	8.63	7.80	84.8	108	127	124	108	88.4	86.8	88.0	40.8	71.2	1973
1974	27.8	22.0	17.8	38.4	172	207	181	180	148	139	126	86.8	112	1974
1975	74.8	88.8	81.7	91.4	174	183	187	138	128	128	128	78.7	118	1975
1976	82.8	84.0	46.8	110	168	168	188	141	133	113	82.8	40.8	108	1976
1977	28.4	18.4	14.3	88.1	122	113	88.8	81.8	81.8	82.8	77.8	47.8	71.8	1977
1978	38.3	23.8	17.8	88.8	126	123	101	83.0	70.7	73.7	88.4	30.8	87.8	1978
1979	17.8	8.88	7.48	17.3	110	180	171	148	128	120	88.1	84.7	88.8	1979
1980	82.4	41.8	30.0	88.8	133	105	78.7	87.8	82.4	80.8	83.0	23.8	87.1	1980
1981	18.8	2.83	8.08	36.1	71.8	72.4	88.8	38.7	33.2	18.7	28.8	31.7	33.7	1981
1982	2.71	0.428	0.828	8.38	81.8	74.4	88.2	82.2	41.2	48.8	33.1	18.4	34.2	1982
1983	12.8	7.48	8.12	8.77	102	131	133	130	107	100	88.8	48.7	72.1	1983
1984	23.7	17.8	18.2	88.7	167	171	181	124	108	108	74.8	82.7	83.0	1984
MEAN	37.8 R	28.8 R	24.4 R	80.4	128	138	118	104	88.4	88.8	81.2	83.8 R	77.8	MEAN

LOCATION - LAT 51 51 10 N DRAINAGE AREA, 88 200 km^2
LONG 88 32 80 W NATURAL FLOW

R - REVISED SINCE JAN 1980

WATERHEN RIVER NEAR WATERHEN - STATION NO. 05LH005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1950	---	---	---	---	1950
1951	---	---	---	---	1951
1952	---	---	---	---	1952
1953	---	389 ON SEP 3	19.3 B ON MAR 26	4 120 000	1953
1954	---	---	112 B ON APR 1	---	1954
1955	---	337 ON JUN 8 *	89.2 RB ON DEC 25	5 350 000R	1955
1956	---	224 ON MAY 30	89.5 RB ON MAR 31	4 240 000R	1956
1957	---	300 ON MAY 21	25.6 B ON MAR 22	2 880 000	1957
1958	---	178 ON MAY 25	5.78 B ON DEC 30	1 710 000	1958
1959	182 AT 14:30 CST ON JUN 25	132 ON JUN 25	0 B ON FEB 17 *	1 490 000	1959
1960	173 AT 15:00 CST ON JUN 1	153 ON JUN 14	7.06 B ON MAR 25	2 190 000	1960
1961	---	102 ON MAY 24	0.0458 ON DEC 25	1 040 000	1961
1962	---	87.7E ON MAY 16	0 B ON JAN 30	669 000	1962
1963	80.7 ON MAY 20	84.0 ON MAY 16	0 B ON FEB 17	401 000	1963
1964	88.7 AT 13:50 CST ON MAY 19	44.5 ON MAY 11	0.0598 ON JAN 7	352 000	1964
1965	139 AT 08:00 CST ON MAY 25	122 ON MAY 25	0 B ON MAR 4	1 280 000	1965
1966	177 AT 15:45 CST ON JUN 2	158 ON JUN 3	3.77 B ON MAR 31	2 620 000	1966
1967	248 AT 11:05 CST ON JUN 21	220 ON JUN 21	41.6 B ON DEC 31	3 380 000	1967
1968	209 R AT 17:15 CST ON MAY 15	187 ON MAY 15	15.5 B ON MAR 22	2 530 000	1968
1969	174 R AT 03:54 CST ON MAY 19	148 ON MAY 31	17.8 B ON APR 4	2 180 000	1969
1970	202 R AT 16:35 CST ON MAY 25	185 ON MAY 25	8.92 B ON APR 1	2 820 000	1970
1971	235 AT 13:47 CST ON MAY 28	218 ON MAY 10	44.7 B ON MAR 25	3 430 000	1971
1972	236 AT 16:15 CST ON JUN 14	203 ON JUN 14	22.9 B ON DEC 27	3 030 000	1972
1973	173 AT 20:54 CST ON JUN 19	162 ON JUN 19	2.97 B ON MAR 2	2 260 000	1973
1974	261 AT 20:21 CST ON JUN 14 *	227 ON JUN 14	9.15 B ON APR 15	3 530 000	1974
1975	217 AT 22:51 CST ON JUN 4	208 ON JUN 5	50.7 B ON MAR 15	3 850 000	1975
1976	212 AT 18:38 CST ON JUN 13	195 ON JUN 14	34.6 B ON DEC 26	3 320 000	1976
1977	170 AT 15:15 CST ON JUN 30	138 ON MAY 19	13.0 B ON MAR 8	2 280 000	1977
1978	183 AT 17:00 CST ON MAY 31	150 ON MAY 31	15.7 B ON MAR 28	2 110 000	1978
1979	229 AT 23:30 CST ON JUN 21	208 ON JUN 21	9.29 B ON APR 11	2 780 000	1979
1980	155 E ON MAY 5	155 E ON MAY 5	12.9 B ON DEC 31	2 120 000	1980
1981	136 AT 04:15 CST ON JUN 16	103 ON JUN 16	0.1738 ON FEB 16	1 080 000	1981
1982	126 AT 04:53 CST ON JUN 7	109 ON JUN 7	0.3808 ON FEB 20	1 080 000	1982
1983	175 AT 18:05 CST ON MAY 28	160 ON JUN 15	2.73 B ON APR 5	2 270 000	1983
1984	210 AT 08:55 CST ON MAY 11	186 ON JUN 23	16.9 B ON MAR 11	2 840 000	1984
				2 440 000R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1990

WEIR RIVER ABOVE THE MOUTH - STATION NO. 05UH002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	1.72	1.34	1.11	---	---	8.35	5.04	4.50	10.1	8.23	5.47	1.87	---	1977
1978	0.878	0.880	0.800	0.809	49.1	17.9	35.1	48.1	47.9	33.3	10.3	3.84	20.8	1978
1979	1.88	0.978	0.878	0.857	24.0	57.9	81.7	18.7	14.8	22.1	8.52	2.81	17.8	1979
1980	1.34	0.880	0.788	20.2	42.2	43.5	80.4	54.1	44.8	28.5	3.84	2.87	24.3	1980
1981	2.14	1.80	1.18	0.815	51.1	34.0	15.3	18.8	8.86	20.8	4.70	2.08	13.5	1981
1982	1.84	1.23	0.830	1.33	82.5	58.5	16.1	18.3	19.1	18.4	7.83	4.38	19.8	1982
1983	3.15	2.27	1.88	1.13	25.1	147	18.7	21.0	84.3	30.1	13.1	8.44	28.8	1983
1984	3.88	2.48	1.81	38.3	81.4	42.8	11.7	8.81	4.89	8.44	2.72	1.88	18.8	1984
MEAN	2.01	1.43	1.03	8.78	50.8	51.3	27.2	23.4	25.8	20.7	8.74	3.07	19.8	MEAN

LOCATION - LAT 58 58 20 N
LONG 93 18 48 W
DRAINAGE AREA, 2 280 km^2
NATURAL FLOW

WEIR RIVER ABOVE THE MOUTH - STATION NO. 05UH002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	---	---	---	1977
1978	---	114 ON AUG 19	0.4838 ON MAR 23	355 000	1978
1979	125 AT 23:17 CST ON JUL 17	124 ON JUL 17	0.8128 ON MAR 28	581 000	1979
1980	---	134 ON JUL 28	0.7388 ON MAR 22	788 000	1980
1981	---	1148 ON MAY 21	0.8508 ON APR 12	424 000	1981
1982	---	2138 ON MAY 5	0.2838 ON APR 25 *	818 000	1982
1983	---	3408E ON MAY 31 *	0.5858 ON MAY 20	845 000	1983
1984	218 AT 18:00 CST ON MAY 18 *	217 ON MAY 18	1.10 B ON APR 8	528 000	1984
				528 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WEST SQUIRREL CREEK NEAR AUSTIN - STATION NO. 05LL001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	0	1.72	0.881	---	---	---	---	---	---	---	---	1982
1983	---	---	0.285	0.900	0.851	0.634	0.241	0.100	0.055	0	---	---	0.338	1983
1984	---	---	0.005	0.812	0.370	0.331	0.147	0.060	0.513	0.098	---	---	0.293	1984
1985	---	---	0.088	1.33	0.810	0.485	0.250	0.080	0.333	0.198	---	---	0.400	1985
1986	---	---	0.027	0.871	0.883	0.102	0.080	0.072	0.012	0.023	---	---	0.328	1986
1987	---	---	0.037	0.834	0.318	0.123	0.051	0.036	0.026	0.039	---	---	0.193	1987
1988	---	---	0.193	0.408	0.337	0.238	0.087	0.211	0.428	0.138	---	---	0.284	1988
1989	---	---	0.003	1.08	0.481	0.318	0.442	0.113	0.083	0.178	---	---	0.336	1989
1970	---	---	0.018	1.87	1.08	0.324	0.245	0.047	0.097	0.078	---	---	0.443	1970
1971	---	---	0.023	1.82	0.617	0.443	0.328	0.097	0.208	0.425	---	---	0.484	1971
1972	---	---	0.320	0.810	0.482	0.388	0.084	0.123	0.108	0.071	---	---	0.293	1972
1973	---	---	0.171	0.181	0.302	0.356	0.310	0.152	0.148	0.142	---	---	0.221	1973
1974	---	---	0.061	2.08	1.08	0.187	0.005	0.035	0.130	0.127	---	---	0.484	1974
1975	---	---	0.084	1.05	0.525	0.159	0.032	0.231	0.338	0.197	---	---	0.322	1975
1976	---	---	0.158	1.82	0.180	0.118	0.028	0.033	0.005	0.088	---	---	0.308	1976
1977	---	---	0.015	0.237	0.149	0.080	0.078	0.048	0.109	0.088	---	---	0.103	1977
1978	---	---	0.086	0.733	0.273	0.077	0.112	0.017	0.101	0.074	---	---	0.183	1978
1979	---	---	0.087	1.31	1.13	0.323	0.082	0.024	0.024	0.054	---	---	0.375	1979
1980	---	---	0.042	0.812	0.081	0.010	0.018	0.235	0.048	0.218	---	---	0.157	1980
1981	---	0.236	0.200	0.187	0.148	0.304	0.048	0.092	0.122	0.188	---	---	0.184	1981
1982	---	---	0.031	0.813	0.244	0.203	0.881	0.038	0.028	0.202	---	---	0.230	1982
1983	---	---	0.001	1.48	0.284	0.173	0.082	0.018	0.049	0.072	---	---	0.287	1983
1984	---	---	0.183	0.300	0.278	0.224	0.018	0.018	0	0.243	---	---	0.184	1984
MEAN	---	0.236	0.124	0.971	0.484	0.282	0.150	0.068	0.134	0.133	---	---	0.288	MEAN

LOCATION - LAT 49 58 00 N DRAINAGE AREA, 188 km²
LONG 88 58 80 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGES OF .633 AND 0 m³/s OCCURRED IN FEB

WEST SQUIRREL CREEK NEAR AUSTIN - STATION NO. 05LL001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1982	---	8.80 ON APR 17	---	---	1982
1983	---	2.84 ON JUN 11	0 B ON MAR 1 *	7 180	1983
1984	---	5.88 ON SEP 2	0 ON AUG 17	8 190	1984
1985	---	7.28 ON APR 13	0 ON AUG 18	8 450	1985
1986	---	3.33 B ON MAR 31	0.003 ON JUL 21	8 830	1986
1987	---	1.66 B ON APR 15	0 ON AUG 4	4 090	1987
1988	---	1.13 B ON MAR 27	0 ON JUL 15	5 270	1988
1989	---	8.30 ON APR 12	0.0038 ON MAR 1	7 110	1989
1970	---	15.6 ON APR 28 *	0 ON AUG 23	9 380	1970
1971	---	6.57 B ON APR 8	0.005 ON AUG 31	9 820	1971
1972	---	1.58 B ON APR 12	0 ON OCT 15	8 200	1972
1973	1.64 AT 17:57 CST ON JUL 25	1.28 ON JUL 28	0.037 ON AUG 30	4 680	1973
1974	9.33 B AT 10:00 CST ON APR 17 *	7.50 ON APR 16	0 ON JUL 3	9 820	1974
1975	3.31 B AT 14:00 CST ON APR 16	2.31 ON APR 29	0.003 ON AUG 8	8 810	1975
1976	---	4.78 ON APR 7	0 ON JUL 29	8 540	1976
1977	0.677 AT 23:35 CST ON MAY 19	0.510 ON MAY 20	0 B ON MAR 1	2 180	1977
1978	1.26 B AT 21:58 CST ON APR 12	1.26 B ON APR 10	0 ON AUG 10	3 470	1978
1979	7.78 AT 18:48 CST ON APR 21	6.77 ON APR 21	0 ON AUG 27	7 940	1979
1980	---	1.95 B ON APR 6	0 ON JUN 4	3 320	1980
1981	---	0.6338 ON MAR 30	0 ON JUL 28	3 280	1981
1982	3.81 AT 00:49 CST ON JUL 18	3.88 ON JUL 18	0 B ON MAR 1	4 670	1982
1983	7.86 B AT 15:15 CST ON APR 8	6.67 B ON APR 9	0 B ON MAR 1	8 680	1983
1984	2.84 AT 10:28 CST ON APR 14	1.93 ON APR 14	0 B ON MAR 1	3 270	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		8 030	MEAN

WHIRLPOOL RIVER AT DANVERS - STATION NO. 08MF008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	---	0.632	0.272	0.084	0.171	0.887	0.114	---	---	1915
1916	---	---	---	3.83	2.87	2.38	1.83	0.378	0.244	0.488	0.872	0.283	---	1916
1917	---	---	---	1.42	2.17	0.295	0.243	0.122	0.452	0.106	0.128	---	---	1917
1918	---	---	---	0.739	0.748	0.488	0.184	0.217	0.810	0.172	0.148	0.085	---	1918
1919	0.057	0.028	0.057	2.88	1.08	0.288	0.813	0.174	0.833	---	---	---	---	1919
MEAN	0.057	0.028	0.057	2.05	1.83	0.774	0.828	0.181	0.440	0.388	0.240	0.184	---	MEAN

LOCATION - LAT 80 33 80 N DRAINAGE AREA, 207 km²
LONG 88 53 30 W NATURAL FLOW

WHIRLPOOL RIVER AT DANVERS - STATION NO. 05MP005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1916	---	---	---	---	1916
1916	---	---	---	---	1916
1917	---	---	---	---	1917
1918	---	2.75 ON MAY 27	---	---	1918
1919	---	4.81 ON APR 11 *	0.0285 ON FEB 1 *	---	1919
				---	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMOUTH RIVER AT WHITEMOUTH - STATION NO. 05PH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	58.5	28.8	28.1	21.7	45.1	46.2 R	28.3	2.83	---	1912
1913	---	---	---	45.3	33.7	11.9	16.8	11.1 R	8.49	18.9	8.81	1.42	---	1913
1914	0.425	0.283	0.868	13.7	24.2	30.5	20.1	3.14 R	4.86 R	17.0	7.78	2.10 R	10.3 R	1914
1915	0.532R	0.342R	0.883R	13.1 R	31.4	19.7	12.8	2.36	1.28	7.58	5.94	2.83	8.24R	1915
1916	0.989	0.816	0.443	58.0	58.9	22.3	30.2	11.6	7.86	8.38	10.1	1.42	17.5	1916
1917	0.870	0.822	0.486	20.3	23.7	8.20	4.88	5.58	4.83	1.93	1.54	0.637R	8.84R	1917
1918	---	---	---	8.78	9.37	18.1	8.00	3.88	1.29	2.87	15.3	2.88	---	1918
1919	0.867	0.831	2.84	27.6	18.9	8.50	58.7	7.06	11.3	7.80	3.23	1.05	12.3	1919
1920	0.207	0.165	0.784	21.2	38.5	44.9	4.85	0.278	0.542	4.75	3.85	1.34	9.92	1920
1921	0.841	1.01	1.32	54.0	34.4	15.8	13.8	25.3	20.6	12.6	5.88	1.88	18.1	1921
1922	0.839	0.834	0.848	25.1	78.2	37.6	14.3	14.7	18.8	9.13	18.1	---	---	1922
1923	---	---	---	---	67.7	21.2	13.6	10.2	6.98	7.05	3.40	---	---	1923
1924	---	---	---	---	50.6	20.2	7.67	11.6	3.38	8.68	---	---	---	1924
1925	---	---	---	42.5	30.5	93.0	33.6	11.6	11.2	18.0	---	---	---	1925
1926	---	---	---	8.78	8.78	38.2	30.4	14.0	20.6	38.3	18.4	---	---	1926
1927	---	---	---	---	122	40.2	19.2	4.98	7.83	17.0	15.6	---	---	1927
1928	---	---	---	---	13.7	48.7	88.0	22.7	9.11	5.87	4.26	3.82	---	1928
1929	2.89	3.40	5.10	7.61	8.87	14.0	9.83	2.78	3.08	3.82	---	---	---	1929
1930	---	---	---	---	80.2	18.7	11.5	1.61	1.45	3.12	---	---	---	1930
1931	---	---	---	28.2	23.3	7.88	1.80	0.884	1.41	2.88	4.28	---	---	1931
1932	---	---	---	---	25.4	3.18	2.28	1.18	0.868	1.88	---	---	---	1932
1933	---	---	---	---	35.1	19.4	0.835	0.478	0.631	0.857	---	---	---	1933
1934	---	---	---	---	10.5	3.47	0.814	0.629	0.741	1.11	---	---	---	1934
1935	---	---	---	---	20.4	8.10	3.88	1.27	1.23	2.28	---	---	---	1935
1936	---	---	---	---	14.8	3.85	0.711	0.520	0.977	---	---	---	---	1936
MEAN	0.907R	0.845R	1.45 R	28.7 R	38.4	22.7	18.7	7.85 R	7.84 R	10.3 R	8.53	1.95 R	11.5	MEAN

LOCATION - LAT 49 57 15 N LONG 95 58 00 W
DRAINAGE AREA, 3 730 km^2
NATURAL FLOW

R - REVISED SINCE JAN 1980

WHITEMOUTH RIVER AT WHITEMOUTH - STATION NO. 05PH001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	80.7 ON APR 12 83.7 ON JUN 4	0.2838 ON FEB 1	328 000R	1914
1915	---	48.7 ON MAY 12	0.2838R ON FEB 15	280 000R	1915
1916	---	148 ON APR 21	0.386 ON MAR 22	553 000	1916
1917	---	42.5 ON APR 23	0.1138 ON DEC 28	188 000R	1917
1918	---	43.8 ON JUN 4	---	---	1918
1919	---	150 ON JUL 4	0.3118 ON FEB 2	387 000	1919
1920	---	81.8 ON JUN 1	0.028 ON AUG 28 *	313 000	1920
1921	---	85.88 ON APR 14	0.7938 ON JAN 1	504 000	1921
1922	---	130 ON MAY 20	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	122 ON JUN 8	---	---	1925
1926	---	101 ON JUN 28	---	---	1926
1927	---	184 ON MAY 12 *	---	---	1927
1928	---	107 ON JUL 11	---	---	1928
1929	---	25.0 ON MAY 31	---	---	1929
1930	---	125 ON MAY 15	---	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
1933	---	85.28 ON APR 24	---	---	1933
1934	---	---	---	---	1934
1935	---	---	---	---	1935
1936	---	---	---	---	1936
				382 000R	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

WHITEMOUTH RIVER BELOW OUTLET OF WHITEMOUTH LAKE - STATION NO. 05PH005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	---	---	0.139	0.083	0.056	0.133	0.272	0.380	---	---	---	1973
1974	---	---	0	0.743	3.20	3.08	1.61	1.21	1.37	1.34	---	---	1.85	1974
1975	---	---	1.37	1.25	1.88	1.28	1.02	0.880	0.478	0.481	---	---	1.02	1975
1976	---	---	0.885	0.884	0.700	0.424	0.230	0.108	0.061	0.027	---	---	0.388	1976
1977	---	---	0.004	0.080	0.104	0.058	0.045	0.021	0.024	0.088	---	---	0.048	1977
1978	---	---	0	0.301	0.881	0.280	0.154	0.084	0.030	0.002	---	---	0.174	1978
1979	---	---	0	0.112	0.401	0.331	0.130	0.068	0.058	0.032	---	---	0.141	1979
1980	---	---	0.009	0.084	0.075	0.013	0.006	0.011	0.013	0.005	---	---	0.027	1980
MEAN	---	---	0.285	0.805	0.858	0.892	0.384	0.274	0.287	0.282	---	---	0.480	MEAN

LOCATION - LAT 49 15 50 N DRAINAGE AREA, 285 km²
LONG 95 36 40 W REGULATED

WHITEMOUTH RIVER BELOW OUTLET OF WHITEMOUTH LAKE - STATION NO. 05PH005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1973	---	---	---	---	1973
1974	4.30 AT 12:00 CST ON MAY 23 *	4.10 ON MAY 23 *	0 B ON MAR 1 *	32 800	1974
1975	2.06 AT 03:36 CST ON MAY 5	2.03 ON MAY 4	0.422 ON OCT 13	21 800	1975
1976	1.45 AT 18:32 CST ON APR 17	1.16 ON APR 17	0.0038 ON OCT 30	8 200	1976
1977	0.311 AT 16:21 CST ON MAY 5	0.170 ON MAY 16	0 B ON MAR 1	1 010	1977
1978	0.8888 AT 09:36 CST ON APR 20	0.874 ON APR 27	0 B ON MAR 1	3 870	1978
1979	0.518 AT 05:00 CST ON JUN 2	0.470 ON JUN 11	0 B ON MAR 1	2 980	1979
1980	0.191 AT 23:59 CST ON APR 23	0.169 ON APR 23	0 ON JUL 11	887	1980
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		10 200	MEAN

WHITEMOUTH RIVER NEAR WHITEMOUTH - STATION NO. 05PH003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1942	---	---	---	---	---	13.9	3.72	1.80	18.3	8.80	---	---	---	1942
1943	---	---	---	32.0	40.6	84.7	22.4	8.87	8.28	3.28	---	---	---	1943
1944	---	---	---	---	18.7	89.7	38.6	18.3	28.8	10.7	22.8	---	---	1944
1945	---	---	---	87.7	36.8	34.1	19.2	3.21	18.5	14.0	---	---	---	1945
1946	---	---	---	33.7	28.1	8.74	4.81	0.800	2.77	9.67	---	---	---	1946
1947	---	---	---	---	38.8	45.5	14.4	26.3	11.7	22.8	---	---	---	1947
1948	---	---	---	47.2	83.7	10.1	10.2	33.8	3.84	1.38	---	---	---	1948
1949	---	---	0 R	24.7 R	25.8	8.14	1.85	7.42	2.78	23.8	25.7	---	---	1949
1950	---	---	---	---	144	63.6	28.0	4.42	18.6	38.0	---	---	---	1950
1951	---	---	2.46 R	28.0	37.0	14.2	3.17	1.14	4.34	5.85	---	---	---	1951
1952	---	---	0.188R	4.98	1.33	1.12	4.58	1.08	0.380	0.419	---	---	---	1952
1953	---	---	0.884R	7.63	7.18	24.3	12.1	1.30	1.48	1.58	---	---	---	1953
1954	---	---	0.088R	23.7	48.8	37.0	7.93	1.07	7.61	8.14	8.71	---	---	1954
1955	---	---	---	65.3	31.3	36.4	5.56	0.348	0.288	0.981	---	---	---	1955
1956	---	---	0.283	16.0	45.8	16.5	21.3	10.8	27.8	10.7	28.6	2.67	---	1956
1957	1.26	1.01	3.75	37.1	42.8	45.3	24.1	2.33	1.48	1.87	1.72	0.838	13.8	1957
1958	0.857	0.827	1.75	3.22	2.47	2.03	22.6	8.20	1.27	3.43	9.18	2.89	4.74	1958
1959	0.283	0.347	0.452	27.8	47.8	49.1	13.6	15.8	28.6	80.8	16.3	3.82	22.1	1959
1960	1.95	0.921	0.887	87.6	36.0	23.6	7.12	2.35	2.28	1.03	4.63	0.981	12.6	1960
1961	0.331	0.310	0.878	11.0	17.0	5.10	0.700	0.343	0.284	2.45	1.74	0.447	3.40	1961
1962	0.305	0.282	0.214	13.5	70.8	87.1	31.8	38.1	13.7	8.88	9.88	4.81	21.7	1962
1963	1.35	1.15	3.68	48.6	46.7	88.4	18.8	7.85	1.38	0.899	0.630	0.333	16.3	1963
1964	0.324	0.159	0.331	21.8	44.4	28.1	12.8	8.04	8.38	28.4	8.13	2.38	13.3	1964
1965	1.20	0.701	0.800	46.3	88.1	36.8	36.4	7.12	11.4	26.1	18.4	13.8	22.1	1965
1966	7.21	2.48	3.52	85.7	101	33.8	34.2	5.13	11.5	7.83	5.22	2.36	25.1	1966
1967	1.61	0.886	3.17	75.2	81.2	18.3	8.22	5.12	0.483	0.478	0.283	0.277	13.8	1967
1968	0.444	0.208	3.85	17.1	18.2	32.8	23.9	13.1	17.3	14.8	8.82	3.34	12.8	1968
1969	1.21	1.78	1.82	81.3	36.2	21.3	16.3	8.49	3.43	8.73	4.08	1.30	12.7	1969
1970	0.808	0.716	0.840	28.4	108	87.3	11.3	2.82	8.18	7.80	15.3	2.08	20.8	1970
1971	1.26	1.01	1.21	33.8	36.8	20.2	11.3	8.06	1.34	2.47	8.83	1.88	9.84	1971
1972	0.485	0.358	1.08	24.8	31.3	7.21	1.13	0.475	1.38	3.78	4.30	0.380	8.39	1972
1973	0.218	0.189	2.73	6.17	8.73	37.0	20.1	18.2	18.3	44.4	15.4	7.00	14.8	1973
1974	1.46	0.848	0.877	68.2	134	48.8	3.44	8.33	8.08	8.43	4.73	1.78	28.1	1974
1975	1.83	1.68	1.77	22.8	43.4	28.7	21.8	1.81	1.81	1.84	1.80	0.834	11.0	1975
1976	0.557	0.443	0.832	48.2	21.3	17.8	8.18	0.838	0.848	1.83	0.124	0.088	7.85	1976
1977	0.202	0.281	0.448	1.38	1.88	7.34	4.43	0.787	7.08	10.3	8.85	2.80	3.84	1977
1978	1.08	0.384	0.388	83.1	41.4	11.1	12.2	2.20	0.888	0.888	0.838	0.388	10.4	1978
1979	0.304	0.252	0.275	32.3	88.1	28.8	2.13	0.312	0.288	0.802	0.883	0.388	10.1	1979
1980	0.440	0.334	0.143	6.15	3.83	0.488	0.248	0.480	1.89	4.82	2.87	0.474	1.88	1980
1981	0.328	0.748	1.08	1.82	3.08	18.7	8.85	1.83	20.8	24.8	13.8	3.02	7.85	1981
1982	0.333	0.182	0.488	34.4	33.7	20.7	37.7	14.1	2.88	18.3	8.20	1.48	14.8	1982
1983	0.483	0.382	2.01	20.4	28.8	28.7	13.8	1.74	0.312	0.888	0.838	0.888	7.88	1983
1984	0.178	0.144	1.88	4.78	8.08	38.8	14.3	2.28	0.188	7.41	7.38	0.871	8.83	1984
MEAN	1.01	0.884	1.27 R	31.7 R	40.8	27.8	14.4	8.88	7.88	10.	8.23	2.28	12.8	MEAN

LOCATION - LAT 49 55 20 N DRAINAGE AREA, 3 700 km² R - REVISED SINCE JAN 1980
LONG 95 57 20 W NATURAL FLOW

WHITEMOUTH RIVER NEAR WHITEMOUTH - STATION NO. 05PH003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1942	---	---	---	---	1942
1943	---	94.8 ON JUN 17	---	---	1943
1944	---	79.8 ON JUN 19	---	---	1944
1945	---	89.2 ON MAR 26	---	---	1945
1946	---	---	---	---	1946
1947	---	73.1 ON JUN 14	---	---	1947
1948	---	132 ON APR 29	---	---	1948
1949	---	47.0 ON OCT 23	0 RB ON MAR 1 *	---	1949
1950	---	212 ON MAY 13	---	---	1950
1951	---	85.8 ON MAY 4	---	---	1951
1952	---	8.89 ON JUL 5	---	---	1952
1953	---	38.7 ON JUN 7	---	---	1953
1954	---	92.8 ON MAY 3	---	---	1954
1955	---	88.7 ON APR 23	---	---	1955
1956	---	84.0 ON MAY 14	---	---	1956
1957	---	89.5 ON APR 28	0.4818 ON DEC 31	430 000	1957
1958	---	34.5 ON JUL 25	0.3969 ON JAN 7	150 000	1958
1959	---	121 ON JUN 12	0.1428 ON JAN 22	887 000	1959
1960	---	173 ON APR 17	0.5418 ON DEC 28	387 000	1960
1961	---	22.4 ON MAY 14	0.0238 ON JAN 25	107 000	1961
1962	---	188 ON MAY 26	0.1278 ON FEB 27	888 000	1962
1963	---	81.8 B ON APR 9	0.2728 ON DEC 30	483 000	1963
1964	---	77.0 ON MAY 9	0.1278 ON FEB 20	420 000	1964
1965	---	100 B ON APR 15	0.3408 ON FEB 25	887 000	1965
1966	---	140 ON APR 18	1.72 B ON DEC 27	781 000	1966
1967	---	117 ON APR 25	0.1428 ON NOV 28	427 000	1967
1968	---	88.2 ON JUN 13	0.0858 ON FEB 20	402 000	1968
1969	---	97.4 B ON APR 12	0.8519 ON JAN 3	400 000	1969
1970	---	137 A ON MAY 3	0.4828 ON MAR 14	858 000	1970
1971	---	83.6 ON APR 21	0.268 ON APR 5	310 000	1971
1972	89.7B AT 13:10 CST ON APR 16	80.1 ON APR 28	0.1868 ON MAR 15	202 000	1972
1973	---	101 ON JUN 20	0.1228 ON FEB 27	480 000	1973
1974	238 AT 01:02 CST ON APR 27 *	237 ON APR 24 *	0.4828 ON MAR 30	781 000	1974
1975	84.0 AT 11:15 CST ON JUL 3	83.7 ON JUL 3	0.6028 ON DEC 28	348 000	1975
1976	84.9 AT 20:33 CST ON APR 30	84.7 ON APR 30	0.0868 ON DEC 5	242 000	1976
1977	---	22.6 ON JUN 30	0.1648 ON JAN 1	112 000	1977
1978	---	105 ON APR 21	0.3038 ON FEB 17	326 000	1978
1979	---	89.0 B ON APR 21	0.169 ON AUG 24	319 000	1979
1980	---	12.8 B ON APR 8	0.107 ON AUG 3	82 700	1980
1981	83.6 AT 12:00 CST ON SEP 10	82.8 ON SEP 10	0.0088 ON FEB 12	248 000	1981
1982	117 B AT 21:09 CST ON APR 16	82.1 B ON APR 16	0.0088 ON FEB 4	488 000	1982
1983	46.4 AT 02:38 CST ON MAY 15	45.0 ON MAY 15	0.0368 ON MAR 27	252 000	1983
1984	83.1 AT 08:47 CST ON JUN 14	82.5 ON JUN 14	0.0368 ON FEB 12	219 000	1984
				398 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

WHITEMUD RIVER ABOVE NEEPAWA RESERVOIR - STATION NO. 05LL013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.300	0.680	0.823	0.309	0.118	0.070	0.170	0.280	---	---	0.342	1981
1982	---	---	0	1.42	1.02	0.621	0.314	0.288	0.184	0.219	---	---	0.493	1982
1983	---	---	0.083	0.382	0.318	0.859	0.606	0.288	0.218	0.234	---	---	0.332	1983
1984	---	---	0.033	0.800	0.660	0.436	0.305	0.163	0.234	0.234	---	---	0.340	1984
1985	---	---	0.241	2.28	0.844	0.480	0.287	0.268	0.471	0.323	---	---	0.813	1985
1986	---	---	0.373	1.38	0.718	0.387	0.244	0.158	0.126	0.218	---	---	0.449	1986
1987	---	---	0.188	1.31	0.808	0.380	0.253	0.158	0.073	0.270	---	---	0.421	1987
1988	---	---	0.288	0.698	0.478	0.244	0.240	0.378	0.388	0.288	---	---	0.380	1988
1989	---	---	0.218	3.30	1.08	0.672	0.898	0.704	0.484	0.898	---	---	0.986	1989
1970	---	---	0.210	3.04	4.30	1.13	0.848	0.831	0.838	0.472	---	---	1.38	1970
1971	---	---	0.278	1.10	0.810	1.78	2.38	0.950	0.225	0.888	---	---	0.978	1971
1972	---	---	0.308	2.73	1.27	0.644	0.288	0.143	0.202	0.484	---	---	0.748	1972
1973	---	---	0.404	0.432	0.384	0.381	0.248	0.325	0.338	0.402	---	---	0.380	1973
1974	---	---	0.238	3.82	2.32	0.888	0.208	0.281	0.374	0.402	---	---	1.07	1974
1975	---	---	0.382	1.34	1.47	0.703	0.427	0.681	0.712	0.808	---	---	0.775	1975
1976	---	---	0.352	4.10	0.788	0.828	0.238	0.130	0.122	0.328	---	---	0.822	1976
1977	---	---	0.448	0.487	0.888	0.883	0.808	0.308	0.848	0.388	---	---	0.838	1977
1978	---	---	0.283	1.82	0.828	0.388	0.188	0.128	0.281	0.282	---	---	0.852	1978
1979	---	---	0.352	3.87	2.73	0.382	0.191	0.018	0.088	0.382	---	---	0.989	1979
1980	---	---	0.240	0.830	0.380	0.188	0.121	0.385	0.227	0.300	---	---	0.328	1980
1981	---	---	0.480	0.284	0.330	0.288	0.130	0.272	0.188	0.387	---	---	0.304	1981
1982	---	---	0.188	1.30	0.378	0.282	0.380	0.100	0.374	0.438	---	---	0.488	1982
1983	---	---	0.360	2.13	0.687	0.488	0.298	0.103	0.384	0.331	---	---	0.585	1983
1984	---	---	0.243	0.418	0.380	0.278	0.122	0.116	0.322	0.583	---	---	0.305	1984
MEAN	---	---	0.287	1.85	0.990	0.633	0.408	0.277	0.295	0.385	---	---	0.598	MEAN

LOCATION - LAT 50 10 54 N, LONG 99 33 55 W
DRAINAGE AREA, 414 km^2
NATURAL FLOW

WHITEMUD RIVER ABOVE NESPAWA RESERVOIR - STATION NO. 05LL013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	1.30 ON APR 13	0.051 ON AUG 19	7 250	1981
1982	---	4.73 ON APR 23	0 B ON MAR 1 *	10 400	1982
1983	---	1.10 ON JUN 5	0.0035 ON MAR 1	7 020	1983
1984	---	1.83 ON APR 15	0.0205 ON MAR 1	7 300	1984
1985	---	8.85 ON APR 15	0.307 ON JUL 10	13 000	1985
1986	---	3.37 ON APR 8	0.045 ON AUG 28	8 510	1986
1987	---	8.20 ON APR 22	0.057 ON SEP 17	8 810	1987
1988	---	1.05 ON APR 21	0.096 ON AUG 14	7 610	1988
1989	---	12.7 ON APR 16	0.1908 ON MAR 28	20 500	1989
1990	---	20.1 ON APR 20 *	0.2108 ON MAR 1	28 500	1990
1991	---	2.82 ON JUN 23	0.093 ON SEP 4	20 700	1991
1992	---	7.11 B ON APR 16	0.122 ON AUG 8	15 800	1992
1993	---	0.6868 ON MAR 21	0.170 ON JUL 11	7 630	1993
1994	21.3 AT 13:53 CST ON APR 21 *	20.1 ON APR 21	0.147 ON JUL 22	22 600	1994
1995	3.45 B AT 09:05 CST ON APR 23	3.26 B ON APR 23	0.334 ON JUL 18	15 400	1995
1996	17.5 B AT 20:34 CST ON APR 8	16.3 B ON APR 8	0.084 ON AUG 27	17 400	1996
1997	2.47 AT 21:34 CST ON JUL 11	2.30 ON JUL 14	0.068 ON AUG 28	11 100	1997
1998	5.04 B AT 13:15 CST ON APR 15	3.31 ON APR 16	0.031 ON SEP 10	8 540	1998
1999	20.4 B AT 17:12 CST ON APR 25	18.8 B ON APR 25	0 ON AUG 7	20 300	1999
2000	---	2.27 B ON APR 7	0.003 ON AUG 1	6 840	2000
2001	0.806 AT 07:23 CST ON MAY 8	0.7008 ON MAR 28	0.083 ON JUL 14	6 430	2001
2002	3.63 AT 13:30 CST ON APR 17	3.64 B ON APR 18	0.024 ON AUG 12	8 840	2002
2003	7.14 AT 03:37 CST ON APR 26	7.03 ON APR 25	0.059 ON AUG 10	11 800	2003
2004	0.878 AT 23:21 CST ON MAY 4	0.818 ON OCT 22	0.052 ON JUL 31	8 530	2004
				12 600	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER AT WESTBOURNE - STATION NO. 05LL002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	4.77	28.0	19.6	11.3	3.76	1.70	1.08	3.43	---	---	---	1972
1973	---	---	4.00	4.66	5.61	4.12	1.72	2.14	3.54	4.36	1.85	1.27	---	1973
1974	0.663	0.301	0.437	57.7	53.7	23.3	8.21	1.21	1.05	1.89	2.45	1.17	12.5	1974
1975	0.801	0.574	0.742	18.2	22.3	8.83	1.38	4.81	14.4	14.0	12.0	4.85	8.43	1975
1976	3.35	2.38	1.74	112	43.2	9.80	2.46	0.788	0.806	3.24	1.20	0.214	15.0	1976
1977	0.167	0.257	1.33	4.80	5.75	3.54	3.63	1.40	3.55	2.60	1.75	0.828	2.48	1977
1978	0.783	0.623	1.13	24.6	8.77	5.48	1.58	0.869	0.824	2.87	4.28	1.50	4.41	1978
1979	0.763	0.481	0.630	86.5	83.4	31.6	8.38	2.63	1.35	1.54	1.68	1.38	18.8	1979
1980	0.786	0.554	0.606	9.75	3.16	1.13	0.632	4.12	1.81	3.55	2.54	1.49	2.57	1980
1981	0.611	1.36	3.15	5.30	3.74	5.65	0.821	0.750	0.602	2.45	2.38	0.948	2.33	1981
1982	0.185	0.181	0.526	15.0	10.2	4.28	4.37	1.44	0.884	3.13	2.08	0.720	3.87	1982
1983	0.651	0.518	0.487	50.4	16.7	7.80	3.01	0.815	0.438	1.88	3.47	1.14	7.27	1983
1984	0.261	0.408	2.41	8.59	5.67	3.23	1.03	0.433	0.267	3.63	1.07	0.718	2.22	1984
MEAN	0.833	0.723	1.71	30.4	22.5	9.11	3.08	1.76	2.33	3.74	3.11	1.36	7.08	MEAN

LOCATION - LAT 50 08 03 N DRAINAGE AREA, 8 320 km^2
LONG 98 36 00 W REGULATED SINCE 1980

WHITEMUD RIVER AT WESTBOURNE - STATION NO. 05LL002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	16.6 AT 00:43 CST ON SEP 8	14.9 ON SEP 8	---	---	1973
1974	---	244 A ON APR 20	0.2218 ON FEB 18	396 000	1974
1975	63.1 AT 05:38 CST ON MAY 3	62.0 ON MAY 3	0.5168 ON FEB 1	268 000	1975
1976	178 AT 22:27 CST ON APR 20	177 ON APR 21	0.1058 ON DEC 9	476 000	1976
1977	13.3 AT 23:30 CST ON MAY 22	13.2 ON MAY 23	0.1638 ON JAN 27	76 100	1977
1978	---	40.58 ON APR 18	0.4368 ON JAN 31	138 000	1978
1979	314 AT 07:30 CST ON APR 25 *	306 ON APR 25 *	0.3768 ON FEB 27	631 000	1979
1980	21.3 AT 10:43 CST ON AUG 21	17.88 ON APR 11	0.236 ON AUG 2	81 600	1980
1981	13.08 AT 08:15 CST ON APR 4	12.38 ON APR 8	0.208 ON SEP 21	73 500	1981
1982	---	83.88 ON APR 18	0.0648 ON JAN 25	113 000	1982
1983	105 B AT 07:15 CST ON APR 11	86.48 ON APR 11	0.1508 ON MAR 26	230 000	1983
1984	13.8 AT 23:40 CST ON MAY 8	13.6 ON MAY 8	0.057 ON SEP 7 *	70 300	1984
				223 000	MEAN

A - MANUAL GAUGE B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)

WHITEMUD RIVER NEAR GLADSTONE - STATION NO. 05LL004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1943	---	---	1.88	9.78	1.81	3.79	2.78	0.870	0.117	0.238	---	---	2.74	1943
1944	---	---	---	1.03	1.27	3.02	2.38	0.273	0.382	0.402	0.484	---	1.26	1944
1945	---	---	---	2.81	2.02	0.890	0.722	0.116	0.102	0.271	---	---	1.00	1945
1946	---	---	---	5.78	1.13	0.482	0.402	0.088	0.088	0.408	---	---	1.17	1946
1947	---	---	---	8.87	3.42	1.81	2.24	0.382	0.108	0.188	---	---	2.28	1947
1948	---	---	---	8.72	3.08	0.498	0.293	0.428	0.087	0.174	---	---	2.15	1948
1949	---	---	---	7.82	1.38	0.784	0.348	0.484	0.038	0.287	0.808	---	1.88	1949
1950	---	---	---	3.12	8.84	3.70	2.88	0.784	0.384	0.408	---	---	2.57	1950
1951	---	---	---	6.20	2.47	1.82	0.280	0.280	0.292	0.888	---	---	1.82	1951
1952	---	---	---	3.88	0.840	1.88	2.23	0.348	1.28	0.333	0.343	---	1.44	1952
1953	---	---	---	10.3	4.81	8.41	1.87	0.388	0.284	0.388	0.243	---	3.42	1953
1954	---	---	0.087	7.48	2.88	8.48	1.88	0.282	1.08	1.07	0.801	---	3.10	1954
1955	---	---	0.228	13.8	4.85	3.38	2.28	0.287	0.282	0.878	---	---	3.80	1955
1956	---	---	0.085	12.8	18.0	8.00	7.77	0.833	0.428	1.37	---	---	6.78	1956
1957	---	---	3.30	8.18	3.28	2.08	1.48	0.814	0.441	0.827	---	---	2.08	1957
MEAN	---	---	1.11	7.24	3.88	2.88	2.00	0.431	0.383	0.882	0.488	---	3.44	MEAN

LOCATION - LAT 50 13 05 N DRAINAGE AREA, 1 880 km²
LONG 98 55 28 W NATURAL FLOW

REMARKS - HIGHER MAXIMUM DISCHARGES ARE KNOWN TO HAVE OCCURRED OUTSIDE THE STANDARD PERIOD IN 1945 AND 1957

WHITEMUD RIVER NEAR GLADSTONE - STATION NO. 05LL004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1943	---				
1944	---	18.8 ON APR 10	0.086 ON SEP 29	50 700	1943
		8.88 ON JUL 1	0.0858 ON APR 1	23 000	1944
1945	---				
1946	---	13.7 ON APR 1	0.023 ON SEP 8	18 800	1945
1947	---	27.2 ON APR 1	0 ON SEP 17 *	21 700	1946
1948	---	28.0 B ON APR 18	0.040 ON AUG 13	42 100	1947
1949	---	32.3 B ON APR 21 *	0.008 ON SEP 24	38 800	1948
		18.3 B ON APR 10	0.003 ON SEP 11	28 800	1949
1950	---				
1951	---	13.8 ON MAY 13	0.286 ON OCT 8	47 400	1950
1952	---	12.8 B ON APR 8	0.142 ON AUG 11	28 000	1951
1953	---	10.8 ON JUL 2	0.188 ON AUG 18	28 700	1952
1954	---	29.4 B ON APR 7	0.188 ON SEP 8	82 200	1953
		24.7 B ON APR 18	0.0878 ON APR 1	57 300	1954
1955	---				
1956	---	24.4 B ON APR 9	0.085 ON AUG 20	88 400	1955
1957	---	31.7 ON APR 28	0.085 ON AUG 23	125 000	1956
		18.2 ON APR 28	0.142 ON OCT 1	34 800	1957
				45 200	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER NEAR KEYES - STATION NO. 05LL005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	3.58	1.21	0.527	0.387	0.052	0.103	0.828	---	---	---	1958
1959	---	---	0.509	3.03	1.47	0.880	0.253	0.021	0.268	0.858	---	---	---	1959
1960	---	---	0.170	37.8	5.01	1.78	0.418	0.124	0.140	0.518	---	---	---	1960
1961	---	---	0.529	1.48	1.57	0.834	0.040	0.087	0.248	0.578	---	---	---	1961
1962	---	---	0.114	11.2	2.48	1.53	0.511	0.814	0.417	0.488	0.542	0.182	---	1962
1963	0.003	0	3.42	5.58	1.42	2.40	2.24	0.183	0.120	0.380	0.427	---	---	1963
1964	---	---	0.288	3.41	3.04	0.857	0.318	0.188	0.247	0.178	0.143	0.087	---	1964
1965	0.108	0.183	0.188	21.2	3.78	2.08	2.18	1.22	2.80	0.877	0.888	0.548	2.85	1965
1966	0.302	0.183	4.38	9.13	4.02	1.43	0.270	0.284	0.387	0.088	0.488	0.388	1.78	1966
1967	0.288	0.208	0.240	18.8	3.80	0.882	0.223	0.117	0.084	0.187	0.208	0.148	1.88	1967
1968	0.098	0.208	1.80	2.28	1.12	0.487	0.318	0.740	0.888	0.488	0.533	0.158	0.743	1968
1969	0.188	0.242	0.328	28.1	3.80	1.81	8.48	2.28	0.587	1.08	1.00	0.383	3.87	1969
1970	0.184	0.284	0.318	34.0	24.8	3.83	1.88	0.387	0.487	0.738	0.807	0.337	5.83	1970
1971	0.311	0.280	0.321	8.88	3.77	10.4	8.22	1.23	0.437	2.18	1.41	0.821	3.00	1971
1972	0.282	0.208	3.38	18.8	4.82	1.28	0.542	0.270	0.187	0.388	0.484	0.118	2.38	1972
1973	0.188	0.187	1.48	1.41	1.80	1.07	0.388	0.882	2.43	1.34	0.708	0.441	0.881	1973
1974	0.283	0.280	0.421	32.8	18.8	2.00	0.380	0.148	0.170	0.433	0.488	0.288	4.82	1974
1975	0.308	0.304	0.348	11.3	8.47	1.88	0.281	2.81	8.23	2.08	1.34	0.810	3.10	1975
1976	0.840	0.814	0.548	31.4	2.87	1.75	0.377	0.045	0.024	0.248	0.281	0.130	3.18	1976
1977	0.144	0.187	0.551	1.37	1.88	1.40	2.70	0.703	2.17	1.34	0.788	0.387	1.18	1977
1978	0.383	0.220	0.278	10.8	3.31	1.24	0.288	0.170	0.248	0.388	0.348	0.288	1.48	1978
1979	0.331	0.172	0.300	24.0	24.8	3.87	1.08	0.184	0.133	0.388	0.333	0.208	5.48	1979
1980	0.173	0.188	0.241	4.81	0.578	0.248	0.170	0.884	0.827	0.783	0.821	0.287	0.807	1980
1981	0.144	1.28	1.04	1.88	0.888	0.868	0.283	0.307	0.187	0.847	0.629	0.258	0.882	1981
1982	0.081	0.088	0.188	5.80	2.10	0.801	1.79	0.388	0.228	0.801	0.488	0.184	1.07	1982
1983	0.198	0.102	0.181	28.8	3.82	1.18	0.748	0.202	0.282	0.400	0.282	0.148	2.77	1983
1984	0.100	0.203	0.588	1.82	2.21	0.727	0.181	0.138	0.218	0.878	0.288	0.158	0.608	1984
MEAN	0.214	0.285	0.848	13.8	5.00	1.78	1.32	0.538	0.740	0.710	0.588	0.282	2.41	MEAN

LOCATION - LAT 50 11 15 N DRAINAGE AREA, 1 780 km²
LONG 98 08 10 W REGULATED SINCE 1980

WHITEMUD RIVER NEAR KEYES - STATION NO. OSLL008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	12.3 B ON MAR 28	---	---	1958
1959	---	5.388 ON APR 9	0 B ON MAR 1 *	---	1959
1960	---	130 ON APR 18	---	---	1960
1961	---	2.36 ON APR 24	0 ON JUL 6	---	1961
1962	---	37.1 ON APR 20	0 B ON DEC 26	---	1962
1963	---	21.6 B ON MAR 25	0 B ON JAN 1	---	1963
1964	---	12.7 B ON APR 10	---	---	1964
1965	---	95.1 ON APR 14	0.1020 ON JAN 1	83 100	1965
1966	---	38.6 B ON APR 2	0.026 ON OCT 10	56 100	1966
1967	---	67.4 B ON APR 15	0.026 ON AUG 30	58 400	1967
1968	---	13.8 B ON MAR 30	0.0688 ON JAN 6	23 500	1968
1969	123 AT 08:05 CST ON APR 14	114 ON APR 13	0.1428 ON JAN 1	126 000	1969
1970	243 AT 20:36 CST ON APR 26 *	207 ON APR 27 *	0 B ON JAN 4	177 000	1970
1971	26.9 AT 20:26 CST ON JUL 13	24.9 ON JUL 13	0.2588 ON MAR 2	84 700	1971
1972	---	33.4 ON APR 16	0.057 ON DEC 16	74 300	1972
1973	---	15.3 ON SEP 8	0.118 ON JUL 23	31 300	1973
1974	157 AT 10:31 CST ON APR 16	140 ON APR 16	0.093 ON SEP 21	148 000	1974
1975	66.3 AT 23:20 CST ON APR 30	58.6 ON MAY 1	0.181 ON JUL 14	97 900	1975
1976	---	56.5 ON APR 11	0.016 ON SEP 8	101 000	1976
1977	12.3 AT 10:00 CST ON JUL 13	11.6 ON JUL 13	0.1268 ON JAN 20	36 100	1977
1978	---	26.0 B ON APR 10	0.088 ON SEP 11	46 000	1978
1979	198 AT 02:23 CST ON APR 23	181 ON APR 23	0.082 ON SEP 25	172 000	1979
1980	18.6 AT 20:06 CST ON APR 9	13.4 ON APR 9	0.087 ON AUG 2	25 500	1980
1981	---	5.078 ON FEB 21	0.012 ON AUG 30	21 500	1981
1982	28.3 B AT 13:52 CST ON APR 15	16.6 B ON APR 15	0.0758 ON JAN 15	33 600	1982
1983	123 AT 11:34 CST ON APR 22	108 ON APR 22	0.0808 ON FEB 8	87 400	1983
1984	8.18 AT 10:13 CST ON MAY 7	7.61 ON MAY 7	0.0558 ON DEC 27	19 200	1984
				78 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER NEAR NEEPAWA - STATION NO. OSLL011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	---	0.040	0.108	0.225	---	---	---	1960
1961	---	---	0.274	0.838	0.880	0.827	0.333	0.304	0.218	0.147	---	---	0.388	1961
1962	---	---	0.170	3.08	0.887	0.485	0.240	0.384	0.225	0.168	---	---	0.716	1962
1963	---	---	0.818	1.41	0.880	1.15	0.777	0.308	0.202	0.163	---	---	0.631	1963
1964	---	---	0.273	0.788	0.856	0.287	0.243	0.188	0.188	0.188	---	---	0.373	1964
1965	---	---	0.241	5.98	1.08	0.888	1.03	0.484	1.08	0.438	---	---	1.34	1965
1966	---	---	1.10	2.33	1.38	0.883	0.207	0.227	0.206	0.186	---	---	0.777	1966
1967	---	---	0.230	3.03	1.14	0.238	0.188	0.188	0.238	0.173	---	---	0.673	1967
1968	---	---	0.304	0.884	0.388	0.221	0.238	0.324	0.407	0.248	---	---	0.373	1968
1969	---	---	0.210	8.38	1.48	0.788	2.81	0.485	0.403	0.821	---	---	1.83	1969
1970	---	---	0.723	8.85	7.84	1.37	0.838	0.280	0.488	0.885	---	---	2.58	1970
1971	---	---	0.263	1.85	1.08	3.87	3.86	1.02	0.803	1.04	---	---	1.87	1971
1972	---	---	0.858	5.40	1.83	1.07	0.232	0.134	0.088	0.212	---	---	1.37	1972
1973	---	---	0.488	0.522	0.714	0.418	0.158	0.287	0.813	0.418	---	---	0.478	1973
1974	---	---	0.204	10.2	4.58	1.28	0.148	0.113	0.228	0.363	---	---	2.12	1974
1975	---	---	0.284	3.37	2.82	0.884	0.207	0.889	1.22	0.871	---	---	1.31	1975
1976	---	---	0.398	9.10	1.02	0.748	0.203	0.082	0.117	0.182	---	---	1.48	1976
1977	---	---	0.478	0.875	1.07	0.813	1.23	0.308	1.08	0.584	---	---	0.788	1977
1978	---	---	0.434	3.06	1.58	0.428	0.138	0.153	0.282	0.200	---	---	0.777	1978
1979	---	---	0.334	10.1	5.38	0.738	0.525	0.126	0.231	0.186	---	---	2.18	1979
1980	---	---	0.203	0.838	0.281	0.181	0.181	0.228	0.328	0.385	---	---	0.335	1980
1981	---	---	0.698	0.337	0.388	0.327	0.185	0.180	0.073	0.280	---	---	0.285	1981
1982	---	---	0.284	1.87	0.820	0.358	0.781	0.307	0.248	0.238	---	---	0.884	1982
1983	---	---	0.288	8.88	1.13	0.408	0.418	0.201	0.202	0.283	---	---	1.21	1983
1984	---	---	0.188	0.482	0.822	0.378	0.223	0.210	0.173	0.212	---	---	0.311	1984
MEAN	---	---	0.382	3.71	1.87	0.743	0.838	0.284	0.377	0.332	---	---	1.01	MEAN

LOCATION - LAT 50 13 34 N DRAINAGE AREA, 803 km^2
LONG 99 27 17 W REGULATED SINCE 1980

WHITEMUD RIVER NEAR NEEPAWA - STATION NO. 05LL011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	---	---	---	1960
1961	---	1.83 ON MAY 31	0.002 ON OCT 24	8 230	1961
1962	---	8.34 ON APR 22	0 ON SEP 9 *	15 100	1962
1963	---	4.08 ON JUN 27	0.118 ON OCT 19	13 400	1963
1964	---	2.00 ON MAY 6	0.105 ON JUN 3	7 880	1964
1965	---	18.7 ON APR 16	0 ON AUG 14	28 400	1965
1966	---	5.01 ON MAR 22	0.105 ON SEP 28	15 400	1966
1967	---	9.15 ON APR 16	0.126 ON JUN 9	14 300	1967
1968	---	1.23 ON APR 11	0.113 ON JUL 8	7 900	1968
1969	---	22.2 ON APR 16	0.201 ON JUN 20	34 800	1969
1970	---	48.7 ON APR 29 *	0.082 ON AUG 18	54 800	1970
1971	---	11.4 ON JUN 16	0.216 ON SEP 28	35 400	1971
1972	---	13.9 ON APR 16	0 ON JUL 12	28 900	1972
1973	---	3.86 ON SEP 4	0 ON JUL 14	10 100	1973
1974	---	41.1 ON APR 21	0.022 ON AUG 17	44 900	1974
1975	---	17.2 ON APR 29	0.007 ON JUL 8	27 800	1975
1976	---	29.4 ON APR 10	0.042 ON AUG 8	30 800	1976
1977	---	4.53 ON JUL 13	0.059 ON AUG 23	18 000	1977
1978	---	5.07 E ON APR 16	0.059 ON JUN 29	16 400	1978
1979	---	36.8 B ON APR 28	0.086 ON OCT 8	46 300	1979
1980	---	1.46 B ON APR 8	0.110 ON AUG 14	7 080	1980
1981	0.981 AT 18:36 CST ON MAR 17	0.886 ON MAR 31	0 ON AUG 26	8 250	1981
1982	4.84 B AT 13:57 CST ON APR 16	4.47 B ON APR 16	0.1648 ON APR 4	11 800	1982
1983	28.4 AT 06:23 CST ON APR 21 *	22.1 ON APR 22	0.1628 ON MAR 1	28 800	1983
1984	1.80 AT 10:47 CST ON MAY 6	1.48 ON MAY 6	0.148 ON JUL 28	8 690	1984
				21 800	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER NEAR WOODSIDE - STATION NO. 05LL005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	13.1	3.82	1.81	1.83	0.188	0.208	1.12	---	---	---	1958
1959	---	---	0.573	7.39	4.88	1.88	0.836	0.430	1.08	2.85	---	---	2.61	1959
1960	---	---	0.536	71.8	31.8	9.27	2.44	1.18	0.731	0.853	---	---	14.7	1960
1961	---	---	1.20	5.22	5.33	1.88	0.418	0.089	0.348	0.644	---	---	1.88	1961
1962	---	---	0.180	17.1	7.15	3.37	0.882	1.88	3.31	2.20	---	---	4.48	1962
1963	---	---	7.32	12.9	8.48	12.8	8.04	2.83	1.15	1.43	---	---	6.83	1963
1964	---	---	0.138	10.9	7.84	3.31	1.88	0.830	1.88	1.34	---	---	3.81	1964
1965	---	---	0.238	27.0	10.3	7.81	4.38	2.11	4.84	3.48	---	---	7.27	1965
1966	---	---	2.87	24.7	14.7	8.48	2.08	1.08	0.777	0.881	---	---	6.87	1966
1967	---	---	0.798	26.3	14.4	8.88	1.83	0.371	0.887	0.818	---	---	6.18	1967
1968	---	---	2.21	7.83	5.72	2.88	1.22	2.83	3.31	2.42	---	---	3.47	1968
1969	---	---	0.377	51.7	22.8	8.58	17.3	6.18	2.78	3.78	---	---	14.2	1969
1970	---	---	0.881	88.8	118	24.2	8.87	3.88	3.87	3.80	---	---	27.2	1970
1971	---	---	0.828	18.8	10.8	18.8	17.2	4.22	2.33	8.31	---	---	8.81	1971
MEAN	---	---	1.37	25.1	18.7	7.81	4.88	1.88	1.87	2.28	---	---	8.35	MEAN

LOCATION - LAT 50 09 18 N
LONG 98 41 51 W
DRAINAGE AREA, 8 220 km^2
REGULATED SINCE 1960

WHITEMUD RIVER NEAR WOODSIDE - STATION NO. 05LL005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	---	---	---	1958
1959	---	38.1 B ON APR 1	---	---	1959
		14.8 ON APR 7	0.0148 ON MAR 1	83 100	
1960	---	200 ON APR 17	0.481 ON SEP 27	311 000	1960
1961	---	8.50 ON MAY 8	0.033 ON AUG 18	40 100	1961
1962	---	88.1 ON APR 22	0.028 ON JUL 3	84 200	1962
1963	---	51.3 B ON MAR 28	0 B ON MAR 1 *	138 000	1963
1964	---	38.8 B ON APR 16	0.1138 ON APR 1	74 800	1964
1965	---	128 B ON APR 17	0.1708 ON MAR 1	186 000	1965
1966	---	88.3 ON APR 8	0.188 ON AUG 4	141 000	1966
1967	---	88.8 B ON APR 20	0.040 ON SEP 15	131 000	1967
1968	---	18.1 B ON APR 1	0.122 ON JUL 10	73 800	1968
1969	---	167 ON APR 18	0.3778 ON MAR 1	301 000	1969
1970	---	338 ON APR 28 *	0.8818 ON MAR 1	578 000	1970
1971	---	51.8 B ON APR 11	0.8288 ON MAR 1	208 000	1971
				177 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITESHELL RIVER AT OUTLET OF JESSICA LAKE - STATION NO. 05PS001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	2.31	5.00	10.1	5.85	2.87	1.80	1.02 R	0.770R	---	---	---	1980
1981	---	---	1.37	1.53	2.81	1.71	0.288	0.265	0.062	0.217	---	---	---	1981
1982	---	---	---	---	15.1 R	21.8 R	8.28 R	5.48	5.82	---	---	---	---	1982
1983	---	---	---	5.08 R	7.55	8.14	7.14	3.97	1.62	---	---	---	---	1983
1984	---	---	---	4.03 R	11.0	5.30	5.08	5.78	6.00	5.87	4.98	3.88	---	1984
1985	---	---	---	---	---	---	---	---	---	---	---	---	---	1985
1986	2.59	1.97	2.43	7.55	14.1	12.5	9.81	7.00	6.10	5.87	---	---	---	1986
1987	0.461	0.288	0.465	10.7	15.8	16.0	11.7	4.43	4.38	3.11	1.85	1.80	5.42	1987
1988	1.43	1.39	1.57	5.31	14.0	6.84 R	1.35 R	1.02	3.32	1.02	1.12	1.85	3.84R	1988
1989	1.21	1.16	1.14	5.18	8.32	6.58	5.15	4.19	3.34	4.13	8.35	4.39	4.26	1989
	3.27	2.87	2.82	5.16	8.74	2.77	3.02	2.50	1.92	1.76	3.86	2.48	3.41	
1990	0.460R	0.686R	0.774R	3.44 R	15.6 R	13.8 R	3.36 R	1.80 R	1.87 R	2.26 R	5.53 R	5.59 R	4.88R	1990
1991	3.35	1.84	1.86	7.80	12.5	5.88	1.59	0.885	0.131	0.093	4.10	2.81	3.85	1991
1992	1.78	1.15	1.32	3.43	3.78	2.87	0.475	0.261	0.850	0.830	5.17	2.03	1.86	1992
1993	1.53	1.24	0.777	0.104	0.084	0.338	1.23	2.47	5.35	10.1	10.5	6.89	3.40	1993
1994	4.03	3.87	2.53	10.8	34.4	28.4	4.27	1.78	5.04	5.59	4.01	2.78	9.04	1994
1995	2.30	2.02	2.08	4.30	11.1	7.18	5.72	1.47	1.92	2.01	0.977	0.878	3.82	1995
1996	1.08	1.03	1.08	5.83	8.52	4.38	1.88	0.213	0.243	0.180	0.088	0.084	2.03	1996
1997	0.081	0.073	0.078	0.088	0.531	8.43	5.75	2.81	3.24	5.52	5.43	5.81	3.07	1997
1998	5.85	3.88	2.80	8.42	19.7	8.72	2.00	0.780	0.781	1.98	1.88	1.87	4.89	1998
1999	1.08	1.02	1.18	3.08	14.4	10.4	1.22	0.347	0.328	1.74	1.87	1.91	3.24	1999
2000	1.51	1.18	0.932	1.28	2.38	1.12	0.332	0.228	1.71	2.88	2.77	2.28	1.83	2000
2001	1.58	1.28	0.378	0.074	0.085	0.454	1.34	0.840	1.77	5.28	5.35	3.75	1.85	2001
2002	2.08	1.38	1.48	3.47	10.3	7.25	2.46	1.48	1.13	3.88	3.08	2.09	3.35	2002
2003	1.85	1.42	1.82	1.27	2.37	5.42	2.10	0.411	0.380	2.37	1.78	1.15	1.83	2003
2004	0.849	0.840	0.489	0.177	0.130	3.82	5.24	1.87	0.385	1.85	4.38	4.13	1.98	2004
MEAN	1.88 R	1.47 R	1.42 R	4.42 R	8.78 R	7.80 R	3.84 R	2.27 R	2.80 R	3.18 R	3.82 R	2.82 R	3.88	MEAN

LOCATION - LAT 50 02 20 N DRAINAGE AREA, 883 km²
LONG 95 30 20 W REGULATED

R - REVISED SINCE JAN 1980

WHITESHELL RIVER AT OUTLET OF JESSICA LAKE - STATION NO. 05PS001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1980	---	11.8 ON MAY 4	---	---	1980
1981	---	5.80 ON APR 2	0.038E ON SEP 3	---	1981
1982	---	31.4 R ON JUN 4	---	---	1982
1983	---	9.85 ON JUN 12	---	---	1983
1984	---	12.7 ON MAY 15	---	---	1984
1985	---	---	---	---	1985
1986	---	18.1 ON MAY 17	0.210E ON MAR 23	203 000	1986
1987	---	21.1 ON MAY 7	0.268 ON JUL 27	115 000R	1987
1988	---	15.2 E ON MAY 7	1.13 E ON FEB 26	135 000	1988
1989	---	13.4 ON JUN 17	1.03 ON JUN 4	108 000	1989
	9.77 AT 07:35 CST ON MAY 5	9.74 ON MAY 5			
1990	19.8 R AT 08:35 CST ON JUN 1	19.7 R ON JUN 1	0.183R ON JAN 22	154 000R	1990
1991	14.8 AT 10:15 CST ON MAY 11	14.7 ON MAY 15	0.074 ON SEP 26	112 000	1991
1992	14.5 AT 10:44 CST ON OCT 31	13.8 ON NOV 1	0.276 ON AUG 11	61 800	1992
1993	12.8 AT 22:35 CST ON OCT 13	12.5 ON OCT 14	0.071 ON MAY 13	107 000	1993
1994	42.5 AT 15:00 CST ON MAY 24 *	42.2 ON MAY 24 *	0.885 ON AUG 8	285 000	1994
1995	12.0 AT 11:55 CST ON MAY 15	11.9 ON MAY 19	0.739 ON AUG 7	111 000	1995
1996	14.7 AT 14:01 CST ON APR 28	13.9 ON APR 27	0.070 ON NOV 23	84 100	1996
1997	16.3 AT 20:11 CST ON JUN 20	14.2 ON JUN 21	0.026 ON APR 29 *	98 700	1997
1998	25.8 AT 15:47 CST ON MAY 3	24.5 ON MAY 4	0.806 ON OCT 12	148 000	1998
1999	21.1 AT 17:47 CST ON MAY 17	20.0 ON MAY 18	0.283 ON SEP 10	102 000	1999
2000	5.87 AT 10:54 CST ON SEP 22	5.30 ON SEP 23	0.188 ON SEP 5	48 300	2000
2001	11.5 AT 15:55 CST ON OCT 13	10.3 ON OCT 14	0.027 ON MAY 2	55 400	2001
2002	13.3 AT 17:52 CST ON MAY 15	13.0 ON MAY 20	0.871 ON AUG 17	105 000	2002
2003	7.88 AT 17:56 CST ON OCT 11	7.83 ON JUN 2	0.288 ON APR 28	57 700	2003
2004	9.77 AT 13:02 CST ON OCT 24	7.71 ON OCT 25	0.040 ON MAY 8	52 800	2004
				112 000R	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

WILLOW CREEK NEAR CHATER - STATION NO. 05MH011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1988	---	---	0.883	1.81	0.024	0.084	0.048	0	0	0	---	---	0.488	1988
1987	---	---	0	3.08	0.433	0.021	0.004	0	0	0	---	---	0.438	1987
1988	---	---	0	0.138	0.023	0.007	0.005	0.021	0.171	0.045	---	---	0.140	1988
1989	---	---	0.703	0.138	0.023	0.007	0.005	0.021	0.171	0.045	---	---	0.140	1989
	---	---	0	12.1	1.06	0.213	2.02	0.178	0.014	0.018	---	---	1.02	
1990	---	---	0.008	13.6	3.29	0.482	0.107	0.028	0.015	0.028	---	---	2.18	1990
1991	---	---	0	1.71	0.726	2.88	3.18	0.100	---	---	---	---	---	1991
1992	---	---	1.27	5.27	0.888	0.280	0.178	0.031	0.001	0.001	---	---	0.855	1992
1993	---	---	0.042	0.033	0.036	0.028	0.092	0.038	0.048	0.111	---	---	0.083	1993
1994	---	---	0	13.1	3.12	0.488	0.007	0	0	0	---	---	2.08	1994
1995	---	---	0	4.78	1.38	0.880	0.024	0.105	0.221	0.118	---	---	0.879	1995
1996	---	---	0.010	14 1	0.424	0.248	0.087	0	0	0	---	---	1.82	1996
1997	---	---	0.004	0.004	0.018	0.008	0.041	0.001	0.021	0.073	---	---	0.021	1997
1998	---	---	0.328	3.88	0.884	0.235	0.007	0	0	0	---	---	0.484	1998
1999	---	---	0	8.08	2.17	0.431	0.008	0	0	0	---	---	1.32	1999
2000	---	---	0	0.084	0.001	0	0	0.400	0.043	0.011	---	---	0.084	2000
2001	---	---	0.284	0.027	0.018	0.008	0.001	0	0	0	---	---	0.048	2001
2002	---	---	0.148	2.85	0.108	0.077	0.230	0.087	0.001	0.070	---	---	0.443	2002
2003	---	---	0.008	0.04	0.322	0.181	0.137	0.011	0	0	---	---	1.08	2003
2004	---	---	0.053	0.018	0.108	0.218	0.008	0	0	0	---	---	0.058	2004
MEAN	---	---	0.185	4.82	0.809	0.343	0.338	0.081	0.038	0.028	---	---	0.788	MEAN

LOCATION - LAT 49 51 32 N DRAINAGE AREA, 888 km²
LONG 98 48 34 W NATURAL FLOW

WILLOW CREEK NEAR CHATER - STATION NO. 05NH011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	8.20 E ON APR 1	0 B ON MAR 1 *	8 910	1966
1967	---	11.8 B ON APR 15	0 B ON MAR 1	8 220	1967
1968	---	3.82 B ON MAR 27	0 B ON MAR 1	2 950	1968
1969	---	77.8 ON APR 13	0 B ON MAR 1	40 700	1969
1970	---	58.3 ON APR 25	0.0098 ON AUG 28	45 700	1970
1971	---	27.8 ON JUL 12	0 B ON MAR 1	---	1971
1972	---	25.7 B ON APR 10	0 B ON MAR 1	20 200	1972
1973	---	0.284 ON SEP 8	0 B ON MAR 1	1 110	1973
1974	---	80.4 ON APR 15 *	0 B ON MAR 1	43 800	1974
1975	---	32.0 ON APR 29	0 B ON MAR 1	18 800	1975
1976	---	86.8 B ON APR 7	0 ON AUG 3	38 800	1976
1977	---	0.343 ON JUL 14	0 B ON MAR 1	484	1977
1978	---	15.0 B ON APR 8	0 B ON MAR 1	10 400	1978
1979	---	71.4 B ON APR 21	0 B ON MAR 1	27 900	1979
1980	4.04 AT 04:41 CST ON AUG 22	3.85 ON AUG 22	0 B ON MAR 1	1 350	1980
1981	---	0.8188 ON MAR 17	0 ON JUL 19	843	1981
1982	---	18.2 B ON APR 15	0 B ON MAR 1	9 380	1982
1983	43.9 B AT 08:24 CST ON APR 8 *	35.6 B ON APR 10	0 B ON MAR 1	22 500	1983
1984	8.64 AT 08:04 CST ON JUN 15	4.25 ON JUN 15	0 B ON MAR 1	1 050	1984
				18 900	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILLOW CREEK NEAR GINLI - STATION NO. 05BB002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	3.88	0.788	0.144	0.001	0.034	0.008	0	---	---	0.900	1980
1981	---	---	0.084	0.781	0.118	0.008	0	0	0	0	---	---	0.240	1981
1982	---	---	0	0.513	0.238	0.239	0.017	1.81	0.081	0.028	---	---	0.245	1982
1983	---	---	0.422	8.31	1.14	3.77	---	---	---	---	---	---	2.83	1983
1984	---	---	0	0.343	---	---	---	---	---	---	---	---	---	1984
1966	---	---	0.078	0.880	1.55	0.030	0.018	0	0	0	---	---	0.685	1966
1967	---	---	0	3.80	1.36	0.013	0.001	0.001	0	0	---	---	1.24	1967
1968	---	---	0.081	0.149	0.076	0.041	0.038	0.233	0.083	0.088	---	---	0.088	1968
1969	---	---	0	3.31	1.22	0.387	0.028	0.021	0.003	0.003	---	---	1.22	1969
1970	---	---	0	1.57	0.805	0.172	0.017	0	0	0	---	---	0.658	1970
1971	---	---	0	0.868	0.209	0.024	0.116	0	0	0.004	---	---	0.284	1971
1972	---	---	0	1.46	0.088	0.005	0	0	0	0	---	---	0.360	1972
1973	---	---	0.100	0.010	0.003	0.401	---	---	---	---	---	---	0.127	1973
1974	---	---	0	11.2	8.47	0.778	---	---	---	---	---	---	5.10	1974
1975	---	---	0	0.818	0.153	0.050	---	---	---	---	---	---	0.252	1975
1976	---	---	0	7.00	0.728	0.088	---	---	---	---	---	---	1.83	1976
1977	---	---	0	0.041	0.026	0.078	---	---	---	---	---	---	0.037	1977
1978	---	---	0	3.83	1.03	0.228	---	---	---	---	---	---	2.00	1978
1979	---	---	0	3.88	8.03	1.48	---	---	---	---	---	---	2.84	1979
1980	---	---	0	0.431	0	0	---	---	---	---	---	---	0.108	1980
1981	---	---	0.080	0.174	0.008	0.008	---	---	---	---	---	---	0.088	1981
1982	---	---	0.078	3.37	0.438	0.258	---	---	---	---	---	---	1.03	1982
1983	---	---	0.081	3.04	0.234	0.488	---	---	---	---	---	---	0.943	1983
1984	---	---	0.051	0.305	0.018	0.051	---	---	---	---	---	---	0.080	1984
MEAN	---	---	0.043	2.44	1.05	0.381	0.024	0.190	0.018	0.012	---	---	1.00	MEAN

LOCATION - LAT 50 34 50 N
LONG 97 02 40 W
DRAINAGE AREA, 158 km^2
NATURAL FLOW

REMARKS - PUBLISHED AS "OSIER CREEK" PRIOR TO 1979. AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

WILLOW CREEK NEAR GIMLI - STATION NO. 05BB002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	6.40 B ON APR 18	0B ON MAR 1 *	9 480	1980
1981	---	1.73 ON APR 21	0B ON MAR 1	2 640	1981
1982	---	3.73 ON APR 24	0B ON MAR 1	2 580	1982
1983	---	12.3 B ON APR 8	0B ON MAR 1	27 800	1983
1984	---	---	0B ON MAR 1	---	1984
1986	---	4.73 ON MAY 4	0B ON MAR 1	7 010	1986
1987	---	11.7 ON APR 30	0B ON MAR 1	13 100	1987
1988	---	1.84 E ON MAR 30	0B JN MAR 1	810	1988
1989	---	10.7 ON APR 14	0B ON MAR 1	12 900	1989
1970	---	5.21 ON APR 18	0B ON MAR 1	8 980	1970
1971	---	3.17 B ON APR 11	0B ON MAR 1	3 190	1971
1972	---	8.81 ON APR 18	0B ON MAR 1	4 000	1972
1973	---	3.03 ON JUN 21	0B ON MAR 1	1 340	1973
1974	---	37.7 ON APR 30 *	0B ON MAR 1	53 800	1974
1975	---	3.11 ON APR 21	0B ON MAR 1	2 880	1975
1976	---	12.2 ON APR 17	0B ON MAR 1	30 400	1976
1977	---	0.884 ON JUN 18	0B ON MAR 1	388	1977
1978	---	15.3 ON APR 14	0B ON MAR 1	21 000	1978
1979	---	11.2 ON APR 26	0B ON MAR 1	30 000	1979
1980	---	1.82 B ON APR 8	0B ON MAR 1	1 120	1980
1981	0.420 AT 14:31 CST ON APR 10	0.406 ON APR 10	0B ON MAR 1	888	1981
1982	8.82 AT 00:40 CST ON APR 15 *	8.83 B ON APR 15	0B ON MAR 1	10 800	1982
1983	8.86 AT 14:34 CST ON APR 8	8.76 B ON APR 8	0B ON MAR 1	8 840	1983
1984	0.758 AT 18:30 CST ON MAR 30	0.6318 ON MAR 30	0B ON MAR 1	838	1984
				10 800	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILSON CREEK NEAR MCCREARY - STATION NO. 05LJ801

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	---	---	0.411R	0.078R	0.008R	0 R	0.081R	---	---	---	---	1959
1960	---	---	---	---	0.877R	0.128R	0.057R	0.081R	0.015R	---	---	---	---	1960
1961	---	---	---	---	0.368R	0.011R	0.002R	0.001R	0.006R	---	---	---	---	1961
1962	---	---	---	---	0.323R	0.246R	0.021R	0.003R	0.028R	---	---	---	---	1962
1963	---	---	---	---	---	0.588R	0.356R	0.086R	0.076R	---	---	---	---	1963
1964	---	---	---	---	0.527R	0.057R	0.018R	0.008R	0.007R	---	---	---	---	1964
1985	---	---	---	0.281R	0.687R	0.278R	0.045R	0.024R	0.488R	0.038R	---	---	---	1985
1986	---	---	0.037R	0.281R	0.588R	0.102R	0.042R	0.209R	0.020R	0.038R	---	---	---	1986
1987	---	---	---	0.431R	0.442R	0.152R	0.023R	0.011R	0.002R	0.046R	---	---	---	1987
1988	---	---	---	0.278R	0.277R	0.148R	0.201R	0.140R	0.113R	0.089R	---	---	---	1988
1989	0.003R	0.008R	0.087R	0.518R	0.200R	0.881R	0.480R	0.078R	0.083R	0.101R	0.031R	0.010R	0.205R	1989
1970	0.008R	0.008R	0.008R	0.086R	1.86 R	0.449R	0.143R	0.021R	0.047R	0.083R	0.085R	0.015R	0.237R	1970
1971	0.020R	0.021R	0.021R	0.489R	0.153R	1.04 R	0.243R	0.058R	0.053R	0.346R	0.069R	0.023R	0.211R	1971
1972	0.008R	0.004R	0.008R	0.424R	0.364R	0.088R	0.024R	0.020R	0.017R	0.011R	0.008R	0.008R	0.082R	1972
1973	0.004R	0.003R	0.030R	0.138R	0.170R	0.258R	0.068R	0.088R	0.200R	0.333R	0.084R	0.047R	0.112R	1973
1974	0.044R	0.040R	0.037R	0.813R	0.807R	0.213R	0.070R	0.041R	0.043R	0.042R	0.017R	0.014R	0.185R	1974
1975	0.023R	0.018R	0.020R	0.278R	0.842R	0.331R	0.031R	0.288R	1.86 R	0.527R	0.087R	0.021R	0.310R	1975
1976	0.010R	0.013R	0.018R	0.868R	0.262R	0.211R	0.048R	0.018R	0.018R	0.011R	0.007R	0.004R	0.122R	1976
1977	0.005R	0.007R	0.008R	0.048R	0.102R	0.040R	0.489R	0.041R	0.418R	0.110R	0.027R	0.023R	0.108R	1977
1978	0.024	0.010	0.013	0.448	0.255	0.084	0.009	0.008	0.082	0.040	0.045	0.028	0.088	1978
1979	0.081	0.052	0.054	0.279	1.30	0.383	0.058	0.033	0.031	0.008	0.008	0.012	0.188	1979
1980	0.008R	0.008R	0.008R	0.188R	0.048R	0.024R	0.058R	0.427R	0.047R	0.081R	0.077R	0.018R	0.082R	1980
1981	0.008	0.008	0.025	0.038	0.130	0.191	0.020	0.007	0.013	0.048	---	---	---	1981
1982	---	---	---	0.074R	0.242R	0.152R	0.082R	0.018R	0.032R	0.338R	0.113R	---	---	1982
1983	---	---	---	---	0.501R	0.202R	0.338R	0.031R	0.014R	0.022R	---	---	---	1983
MEAN	0.018R	0.015R	0.024R	0.358R	0.494R	0.263R	0.118R	0.070R	0.140R	0.113R	0.051R	0.018R	0.189	MEAN

LOCATION - LAT 50 43 45 N
LONG 99 33 15 W
DRAINAGE AREA, 22.8 km^2
NATURAL FLOW
DATA CONTRIBUTED BY - MANITOBA WATER RESOURCES BRANCH
R - REVISED SINCE JAN 1980

WILSON CREEK NEAR MCCREARY - STATION NO. 05LJ001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	---	0 R ON JUL 13 *	---	1959
1960	---	---	---	---	1960
1961	---	2.29 R ON MAY 28	0.012R ON SEP 12	---	1961
1962	---	1.12 R ON MAY 8	0 R ON JUL 2	---	1962
1963	---	3.31 R ON MAY 30	0 R ON JUN 14	---	1963
1964	---	4.56 R ON JUN 10	---	---	1964
		2.09 R ON MAY 10	---	---	
1965	---	---	---	---	1965
1966	---	3.96 R ON APR 29	0 R ON APR 1	---	1966
1967	---	---	---	---	1967
1968	---	1.61 R ON MAY 15	0 R ON SEP 15	---	1968
1969	---	1.35 R ON JUL 1	0.024R ON OCT 14	---	1969
		8.35 R ON JUN 27	0.003RB ON JAN 1	5 440R	
1970	---	---	---	---	1970
1971	---	9.80 R ON MAY 8	0.005RB ON JAN 26	7 480R	1971
1972	---	8.51 R ON JUN 8	0.013R ON SEP 28	6 670R	1972
1973	---	2.83 R ON APR 28	0.001R ON JUN 30	2 800R	1973
1974	---	1.33 R ON JUN 20	0.003RB ON JAN 11	3 640R	1974
		4.11 R ON MAY 11	0.005RB ON NOV 8	5 230R	
1975	---	---	---	---	1975
1976	---	10.6 R ON SEP 19 *	0 R ON JUL 28	9 780R	1976
1977	---	2.75 R ON APR 14	0.003RB ON MAR 21	3 670R	1977
1978	---	7.74 R ON JUL 11	0.001R ON AUG 24	3 410R	1978
1979	10.8 AT 00:30 CST ON MAY 17 *	1.82 ON APR 27	0 ON JUL 10	2 710	1979
		6.16 ON MAY 17	0.003 ON SEP 8	5 880	
1980	---	---	---	---	1980
1981	---	3.00 R ON AUG 21	0 R ON SEP 13	2 560R	1981
1982	---	0.898 ON JUN 16	0.002 ON AUG 18	---	1982
1983	---	---	---	---	1983
		---	---	---	
		---	---	---	
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980		5 020R	MEAN

WILSON RIVER NEAR ASHVILLE - STATION NO. 05LJ045

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0	22.6	12.8	1.48	0.036	0.001	0	0	---	---	4.56	1978
1980	---	---	0.017	4.85	0.988	0.002	0	0.152	0.131	0.113	---	---	0.886	1980
1981	---	---	0.550	0.770	0.787	1.43	0.104	0.001	0.001	0.003	---	---	0.453	1981
1982	---	---	0.078	5.15	0.818	0.078	0.008	0.232	0.004	0.317	---	---	0.787	1982
1983	---	---	0	15.5	4.62	0.941	0.327	0.010	0.001	0.001	---	---	3.15	1983
1984	---	---	0.215	0.548	0.614	0.196	0.018	0.001	0.001	0.010	---	---	0.226	1984
MEAN	---	---	0.143	8.84	3.25	0.883	0.082	0.088	0.023	0.074	---	---	1.84	MEAN

LOCATION - LAT 51 08 30 N DRAINAGE AREA, 888 km^2
LONG 100 20 00 W NATURAL FLOW

WILSON RIVER NEAR ASHVILLE - STATION NO. 05LJ045

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	187 AT 03:53 CST ON APR 22 *	183 ON APR 22 *	00 ON MAR 1 *	55 600	1978
1980	---	13.0 B ON APR 7	00 ON MAR 1	13 800	1980
1981	8.36 AT 04:00 CST ON MAY 30	7.32 ON MAY 30	0 ON AUG 11	8 550	1981
1982	---	16.9 ON APR 18	00 ON MAR 1	18 700	1982
1983	182 AT 06:21 CST ON APR 24	154 ON APR 24	00 ON MAR 1	88 700	1983
1984	3.46 AT 15:32 CST ON APR 3	1.638 ON APR 4	00 ON MAR 1	4 780	1984
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		34 700	MEAN

WILSON RIVER NEAR DAUPHIN - STATION NO. OSLJ011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	0	17.3	20.7	0.856	2.12	0.678	0.112	0.012	---	---	5.28	1948
1949	---	---	0.085	5.86	0.868	2.37	0.815	0.118	0.003	0.013	---	---	1.20	1949
1950	---	---	0	5.73	4.86	4.42	0.18	0.384	0.016	0.276	---	---	2.72	1950
1951	---	---	0	5.10	5.22	0.686	0.204	0.028	0.052	0.383	---	---	1.84	1951
1952	---	---	0.005	12.2	0.868	0.194	0.018	0	0.841	0.088	---	---	1.71	1952
1953	---	---	---	11.0	8.78	24.1	4.30	0.507	0.387	2.62	1.06	---	---	1953
1954	---	---	0	10.1	7.40	13.1	8.82	0.138	0.895	1.66	0.344	---	5.38	1954
1955	---	---	0	14.7	10.8	5.87	0.721	0.027	0	0.026	---	---	4.10	1955
1956	---	---	0	10.4	18.0	5.32	4.85	0.323	0.181	0.124	---	---	5.18	1956
1957	---	---	0.289	21.6	4.73	0.785	0.128	0.013	0.002	0.028	---	---	3.40	1957
1958	---	---	0.300	1.62	0.186	0.056	0.027	0	0	0	---	---	0.306	1958
1959	---	---	0.385	1.35	0.710	1.63	0.848	0.008	0	0.027	---	---	0.626	1959
1960	---	---	0	18.3	7.84	2.17	0.089	0.008	0	0	---	---	3.28	1960
1961	---	---	0	0.001	0.052	0	0	0	0	0	---	---	0.007	1961
1962	---	---	0	4.26	0.748	0.347	0	0	0	0	---	---	0.682	1962
1963	---	---	1.18	3.47	0.881	2.84	0.858	0.035	0	0	---	---	1.08	1963
1964	---	---	0	7.03	3.28	0.083	0.118	0.004	0	0	---	---	1.30	1964
1965	---	---	0	8.84	3.88	2.05	0.411	0.058	3.27	0.888	---	---	2.32	1965
1966	---	---	0.330	15.0	8.87	1.14	0.808	0.344	0.004	0.002	---	---	3.75	1966
1967	---	---	0.003	16.4	11.3	0.834	0.048	0.008	0.002	0	---	---	3.81	1967
1968	---	---	1.28	2.87	0.177	0.028	0.006	0.013	0.008	0	---	---	0.606	1968
1969	---	---	0	10.0	0.484	2.26	4.08	0.193	0.003	0.004	---	---	2.11	1969
1970	---	---	0.013	15.8	18.4	2.13	2.82	0.588	0.084	0.328	---	---	5.07	1970
1971	---	---	0.040	14.3	1.62	7.30	0.824	0.172	0.003	0.284	---	---	3.01	1971
1972	---	---	2.61	15.0	2.75	0.208	0.031	0.004	0	0.002	---	---	2.54	1972
1973	---	---	0.058	0.285	0.132	0.810	0.048	0.020	0.713	2.28	---	---	0.505	1973
1974	---	---	0.078	32.9	28.5	1.43	0.128	0.008	0.007	0.014	---	---	7.82	1974
1975	---	---	0.010	16.4	5.99	3.70	0.125	0.308	8.75	2.88	---	---	4.88	1975
1976	---	---	0.001	25.3	1.83	11.8	0.707	0.022	0.005	0.001	---	---	4.84	1976
1977	---	---	0.002	0.380	0.186	0.030	0.810	0.148	1.18	0.843	---	---	0.438	1977
1978	---	---	0.070	11.0	2.30	0.382	0.028	0.003	0.002	0.030	---	---	1.70	1978
1979	---	---	0.030	8.44	0.198	0.082	0.128	0.138	0.187	0.073	---	---	0.891	1979
1980	---	---	0.578	1.04	0.817	1.81	0.148	0.004	0	0	---	---	0.570	1980
1981	---	---	0.087	8.08	0.758	0.138	0.083	0.320	0.056	0.318	---	---	0.888	1981
1982	---	---	---	---	---	---	---	---	---	---	---	---	---	1982
MEAN	---	---	0.224	10.4	5.48	3.01	1.23	0.142	0.483	0.374	0.897	---	2.53	MEAN

LOCATION - LAT 51 12 30 N
LONG 100 10 45 W

DRAINAGE AREA, 925 km²
NATURAL FLOW

WILSON RIVER NEAR DAUPHIN - STATION NO. OSLJ011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	70.8 ON APR 26	0 B ON MAR 1 *	111 000	1948
1949	---	13.8 ON APR 12	0 E ON SEP 28	38 400	1949
1950	---	27.8 B ON APR 18	0 B ON MAR 1	57 800	1950
1951	---	35.4 ON APR 30	0 B ON MAR 1	41 100	1951
1952	---	43.8 B ON APR 6	0 B ON MAR 1	38 200	1952
1953	---	84.8 ON JUN 5	---	---	1953
1954	---	86.8 ON JUL 2	0 B ON MAR 1	114 000	1954
1955	---	61.8 ON MAY 8	0 B ON MAR 1	88 800	1955
1956	---	86.0 ON APR 25	0 B ON MAR 1	108 000	1956
1957	---	86.5 ON APR 28	0 B ON MAR 1	72 000	1957
1958	---	7.53 B ON APR 1	0 B ON MAR 1	6 470	1958
1959	---	8.78 ON JUN 19	0 B ON MAR 1	13 200	1959
1960	---	44.5 B ON APR 13	0 B ON MAR 1	89 500	1960
1961	---	0.227 ON MAY 17	0 B ON MAR 1	142	1961
1962	---	18.4 ON APR 20	0 B ON MAR 1	14 000	1962
1963	---	10.7 ON APR 8	0 B ON MAR 1	23 000	1963
1964	---	18.8 ON APR 13	0 B ON MAR 1	27 800	1964
1965	---	37.8 ON APR 14	0 B ON MAR 1	48 000	1965
1966	---	88.1 ON APR 3	0 B ON MAR 1	78 300	1966
1967	---	83.5 ON APR 28	0 E ON AUG 17	74 400	1967
1968	---	7.85 B ON MAR 29	0 B ON MAR 1	10 700	1968
1969	---	51.3 ON APR 14	0 B ON MAR 1	44 600	1969
1970	---	72.8 B ON APR 26	0.0088 ON MAR 1	107 000	1970
1971	---	81.4 B ON APR 11	0.001 ON AUG 29	63 700	1971
1972	---	38.8 ON APR 18	0 ON AUG 31	83 600	1972
1973	---	7.85 ON OCT 6	0 B ON MAR 1	10 700	1973
1974	---	174 ON APR 20 *	0 ON AUG 30	108 000	1974
1975	108 AT 23:15 CST ON SEP 20 *	81.3 ON SEP 20	0.002 ON AUG 3	89 100	1975
1976	---	78.3 ON JUN 14	0 B ON MAR 1	102 000	1976
1977	---	8.41 ON SEP 27	0 B ON MAR 1	8 230	1977
1978	---	32.0 B ON APR 11	0 ON AUG 11	38 000	1978
1979	---	28.8 B ON APR 7	0 ON JUN 8	15 900	1979
1980	9.62 AT 03:37 CST ON MAY 31	8.84 ON MAY 31	0 ON AUG 8	13 100	1980
1981	---	17.1 A ON APR 18	0 B ON MAR 1	20 300	1981
1982	---	---	---	---	1982
				63 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILSON RIVER NEAR GILBERT PLAINS - STATION NO. 05LJ035

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1985	---	---	0	8.66	2.78	1.03	0.384	0.108	2.73	0.839	---	---	1.82	1985
1986	---	---	0.284	13.1	6.34	0.868	0.887	0.282	0.061	0	---	---	2.84	1986
1987	---	---	0	12.0	6.80	0.183	0.008	0	0	0	---	---	2.81	1987
1988	---	---	1.48	1.85	0.108	0.015	0.084	0.108	0.061	0	---	---	0.482	1988
1989	---	---	0	7.38	0.212	2.41	3.03	0.019	0.008	0.087	---	---	1.82	1989
1970	---	---	0.003	16.4	17.8	1.51	1.87	0.183	0.103	0.410	---	---	4.74	1970
1971	---	---	0.018	11.5	0.884	4.95	0.787	0.110	0.061	0.286	---	---	2.26	1971
1972	---	---	1.80	12.0	2.10	0.048	0	0	0	0	---	---	1.98	1972
1973	---	---	0.173	0.268	0.127	0.384	0.014	0.010	0.838	1.26	---	---	0.343	1973
1974	---	---	0.071	20.4	22.3	0.810	0.028	0.002	0.004	0.008	---	---	5.44	1974
1975	---	---	0	13.0	3.88	3.14	0.042	0.151	8.67	1.38	---	---	3.82	1975
1976	---	---	0.126	20.6	1.33	7.42	0.488	0.002	0	0	---	---	3.87	1976
1977	---	---	0	0.378	0.183	0.038	0.908	0.054	1.20	0.447	---	---	0.400	1977
1978	---	---	0.083	8.82	1.38	0.088	0.007	0	0.004	0.052	---	---	1.38	1978
MEAN	---	---	0.271	10.3	4.88	1.82	0.581	0.073	1.00	0.338	---	---	2.38	MEAN

LOCATION - LAT 51 07 38 N LONG 100 28 20 W
DRAINAGE AREA, 848 km²
NATURAL FLOW

WILSON RIVER NEAR GILBERT PLAINS - STATION NO. 05LJ035

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1985	---	---	---	---	1985
1986	---	33.3 ON APR 15	0E ON MAR 1 *	38 500	1986
1987	---	33.1 B ON APR 2	0 ON SEP 8	85 800	1987
1988	---	47.6 ON APR 27	0E ON MAR 1	85 200	1988
1989	---	10.2 B ON MAR 29	0E ON MAR 1	9 780	1989
		49.6 B ON APR 13	0E ON MAR 1	34 300	
1970	---	110 ON MAY 4	0E ON MAR 1	100 000	1970
1971	---	47.0 B ON APR 10	0 ON SEP 24	48 200	1971
1972	---	31.1 ON APR 21	0 ON JUN 25	41 200	1972
1973	---	6.51 ON OCT 4	0E ON MAR 1	7 270	1973
1974	---	135 ON MAY 23 *	0 ON AUG 4	115 000	1974
1975	138 AT 14:00 CST ON SEP 19 *	98.8 ON SEP 19	0E ON MAR 1	80 800	1975
1976	---	59.5 ON APR 10	0 ON AUG 21	77 700	1976
1977	---	7.87 ON SEP 27	0E ON MAR 1	8 480	1977
1978	---	18.2 B ON APR 10	0 ON JUL 29	28 700	1978
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		49 900	MEAN

WINNIPEG RIVER ABOVE LAMPREY FALLS - STATION NO. 05PF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	---	---	1 830	1 090	829	876	875	---	---	---	1956
1957	---	---	---	---	---	743	1 130	864	842	852	734	---	---	1957
1958	---	---	---	---	---	804	828	867	867	804	844	---	---	1958
1959	884	833	788	727	787	1 140	1 280	1 040	828	1 040	1 080	998	931	1959
1960	1 040	972	818	885	888	802	711	878	883	888	888	785	838	1960
1961	782	738	733	840	715	878	838	828	837	---	---	---	---	1961
1962	---	---	---	---	---	1 800	1 340	1 870	1 710	1 230	---	---	---	1962
1963	---	---	---	---	---	1 100	1 180	---	---	---	---	---	---	1963
MEAN	839	848	812	787	778	1 000	988	884	782	804	783	808	878	MEAN

LOCATION - LAT 50 22 00 N LONG 95 20 20 W
DRAINAGE AREA, 128 000 km²
REGULATED

WINNIPEG RIVER ABOVE LAMPREY FALLS - STATION NO. 05PF004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	1 810 ON JUN 15	837E ON SEP 18	---	1956
1957	---	1 330 ON JUL 28	852 ON SEP 18	---	1957
1958	---	---	371 ON SEP 7 *	---	1958
1959	1 390 AT 04:00 CST ON JUL 18 *	1 390 ON JUL 17	834E ON JAN 6	28 400 000	1959
1960	---	1 180 ON JAN 23	878 ON NOV 6	28 100 000	1960
1961	869 AT 11:00 CST ON JAN 7	884 ON JAN 7	---	---	1961
1962	---	2 140E ON SEP 3 *	---	---	1962
1963	---	1 440 ON JUL 8	---	---	1963
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		27 800 000	MEAN

WINNIPEG RIVER AT SLAVE FALLS - STATION NO. 05PF003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1907	785	848	481	413	482	783	807	887	1 040	1 200	1 210	1 120	828	1907
1908	1 040	1 040	888	807	822	1 180	1 220	1 120	1 030	838	804	880	988	1908
1909	781	884	833	875	886	888	885	831	878	878	838	823	1909
1910	715	887	874	1 120	1 800	1 380	1 050	700	858	481	408	387	803	1910
1911	423	374	348	340	420	821	848	738	701	738	848	848	838	1911
1912	888	480	380	381	848	788	747	787	840	881	887	840	700	1912
1913	784	738	828	484	808	882	842	781	788	807	424	408	888	1913
1914	383	371	387	407	820	812	1 030	812	738	887	881	882	827	1914
1915	815	482	448	808	785	821	1 020	888	878	888	801	822	883	1915
1916	883	718	788	761	1 280	1 880	1 880	1 800	1 480	1 270	872	825	1 180	1916
1917	878	1 100	807	807	718	881	437	812	883	848	858	844	885	1917
1918	824	488	488	841	858	885	828	880	848	848	883	892	881	1918
1919	870	812	858	815	712	840	1 080	1 200	881	844	718	880	788	1919
1920	801	827	875	705	882	1 170	1 080	775	825	887	488	432	887	1920
1921	418	384	378	842	1 040	843	820	743	871	708	861	817	873	1921
1922	858	818	478	885	1 180	1 240	884	824	787	823	838	881	728	1922
1923	433	388	488	822	848	787	887	888	874	872	822	875	848	1923
1924	833	814	485	485	848	885	888	880	828	827	477	442	845	1924
1925	418	332	312	381	487	883	788	748	882	801	841	483	833	1925
1926	484	438	424	488	848	720	878	872	718	1 000	1 320	1 020	748	1926
1927	838	818	887	1 130	2 080	2 380	2 410	2 110	1 420	841	832	703	1 400	1927
1928	884	823	880	708	727	702	1 330	1 180	881	887	1 040	808	888	1928
1929	778	781	822	833	885	808	888	878	882	818	838	881	833	1929
1930	818	441	488	482	884	883	807	442	388	382	381	428	487	1930
1931	400	384	347	382	327	321	348	348	343	382	388	411	382	1931
1932	408	388	378	480	818	888	802	387	328	374	420	433	440	1932
1933	442	444	888	1 010	1 020	883	811	831	482	418	478	883	888	1933
1934	802	888	818	888	883	1 120	1 200	1 180	888	827	728	887	838	1934
1935	888	877	832	842	778	783	842	845	807	888	803	740	735	1935
1936	888	704	782	872	828	828	884	878	808	483	800	802	884	1936
1937	818	888	480	812	827	888	883	1 220	887	842	883	818	724	1937
1938	883	878	880	888	1 880	2 080	1 740	751	885	883	883	822	803	1938
1939	800	814	838	840	848	847	882	877	801	487	817	832	848	1939
1940	817	837	484	488	487	481	488	378	342	381	483	443	482	1940
1941	437	418	418	480	888	878	821	808	880	1 780	2 120	1 880	834	1941
1942	1 180	803	778	870	883	738	874	888	780	738	884	844	737	1942
1943	881	887	713	747	1 130	1 770	2 280	1 380	787	818	807	782	1 080	1943
1944	713	724	728	880	711	1 180	1 770	1 340	1 800	832	708	818	884	1944
1945	883	838	788	1 210	1 880	1 140	804	788	888	848	738	778	813	1945
1946	732	788	784	1 080	1 330	1 110	838	778	848	848	733	783	858	1946
1947	781	878	831	885	1 080	1 440	1 880	1 030	788	878	888	728	887	1947
1948	734	748	788	808	1 480	1 020	717	738	841	888	844	844	782	1948
1949	887	888	848	888	743	820	877	841	838	[illegible]2	820	828	881	1949
1950	778	772	778	788	1 880	2 710	2 880	2 820	2 040	1 080	881	888	1 470	1950
1951	818	881	887	1 020	1 810	1 330	1 010	881	828	888	888	804	831	1951
1952	888	878	881	844	881	832	787	848	778	838	838	888	787	1952
1953	880	828	818	822	883	884	888	887	887	882	888	884	718	1953
1954	700	788	784	832	1 880	2 440	2 300	1 140	823	781	772	782	1 180	1954
1955	878	883	838	784	848	832	884	747	802	882	844	788	713	1955
1956	730	808	888	1 030	1 310	1 480	1 180	874	888	828	838	874	880	1956
1957	871	882	887	887	824	887	1 120	818	883	881	888	723	738	1957
1958	782	748	718	834	880	480	808	488	408	827	878	818	888	1958
1959	884	813	783	783	748	1 180	1 310	1 080	777	1 080	1 030	1 010	830	1959
1960	1 000	887	803	881	888	781	888	844	883	828	880	784	808	1960
1961	788	713	888	808	884	881	487	428	433	800	883	881	887	1961
1962	887	888	811	888	787	1 840	1 280	1 800	1 880	1 210	888	818	1 040	1962
1963	884	873	820	888	888	1 080	1 180	1 080	888	831	888	840	873	1963
1964	834	833	888	834	882	882	1 420	881	1 280	2 180	1 880	1 210	1 170	1964
1965	1 080	1 070	1 180	1 380	1 800	1 880	1 800	881	887	1 120	1 730	1 270	1 270	1965
1966	1 340	1 380	1 420	1 710	2 280	2 280	1 800	872	837	881	830	833	1 380	1966
1967	887	880	824	843	773	728	727	824	884	871	788	871	787	1967
1968	881	844	788	880	880	1 100	1 770	1 840	1 440	1 880	1 890	1 820	1 210	1968
1969	1 030	1 810	1 800	1 480	1 170	1 320	1 280	1 280	1 380	1 320	1 320	1 310	1 380	1969
1970	1 280	1 280	1 300	1 240	1 820	2 100	1 900	878	840	1 110	1 880	1 810	1 410	1970
1971	1 880	1 480	1 480	1 480	1 410	1 180	840	728	800	718	1 810	1 820	1 280	1971
1972	1 800	1 480	1 480	1 830	1 400	883	810	820	718	728	883	810	1 080	1972
1973	883	888	848	880	488	401	347	488	817	1 080	1 420	1 320	818	1973
1974	1 280	1 270	1 280	1 470	2 200	2 880	2 380	1 270	1 180	1 130	1 080	1 280	1 830	1974
1975	1 180	1 320	1 410	1 410	1 380	888	1 270	727	828	804	788	881	1 080	1975
1976	878	838	888	1 020	720	821	408	382	381	372	403	404	820	1976
1977	474	882	888	272	148	122	184	217	444	1 180	1 340	1 420	878	1977
1978	1 340	1 320	1 280	1 380	877	1 080	1 380	888	1 280	1 040	841	880	1 180	1978
1979	888	887	878	888	1 820	1 800	880	877	848	771	782	848	883	1979
1980	808	881	1 040	1 030	738	388	388	288	388	408	838	738	828	1980
1981	818	848	818	388	284	283	807	317	407	874	838	823	820	1981
1982	888	787	880	808	788	1 080	1 000	818	771	808	1 070	1 330	884	1982
1983	1 300	1 130	1 080	888	873	808	810	832	481	870	838	821	780	1983
1984	841	838	882	718	888	838	888	818	842	888	788	818	788	1984
MEAN	751	787	748	788	838	1 020	1 020	838	788	772	808	784	838	MEAN

LOCATION - LAT 50 13 30 N
LONG 95 34 15 W

DRAINAGE AREA, 128 000 km²
REGULATED SINCE 1907

DATA CONTRIBUTED BY -
CITY OF WINNIPEG HYDRO-ELECTRIC SYSTEM

WINNIPEG RIVER AT SLAVE FALLS - STATION NO. 05PF003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1907	---	1 280 ON OCT 22	408 ON APR 8	28 200 000	1907
1908	---	1 250 ON JUN 27	614 ON DEC 27	30 700 000	1908
1909	---	807 ON JAN 13	458 ON APR 17	19 700 000	1909
1910	---	1 510 ON MAY 7	351 ON DEC 24	28 300 000	1910
1911	---	787 ON OCT 12	308 ON MAR 27	17 000 000	1911
1912	---	1 030 ON OCT 31	327 ON MAR 25	22 100 000	1912
1913	---	885 ON JUN 13	388 ON DEC 27	21 000 000	1913
1914	---	1 080 ON JUL 18	331 ON FEB 22	19 800 000	1914
1915	---	1 080 ON JUL 18	411 ON APR 4	21 800 000	1915
1916	---	1 870 ON JUL 24	592 ON JAN 1	37 300 000	1916
1917	---	1 180 ON FEB 13	402 ON JUL 22	21 800 000	1917
1918	---	888 ON JUN 20	458 ON MAR 3	17 700 000	1918
1919	---	1 280 ON JUL 28	442 ON MAR 9	24 300 000	1919
1920	---	1 300 ON JUN 7	405 E ON NOV 28	22 100 000	1920
1921	---	1 100 ON MAY 28	379 E ON MAR 1	21 200 000	1921
1922	---	1 430 ON MAY 28	447 ON APR 2	23 000 000	1922
1923	---	1 010 ON MAY 8	398 E ON FEB 6	20 400 000	1923
1924	---	726 ON JUN 6	419 ON DEC 19	17 260 000	1924
1925	---	813 ON JUL 4	378 ON APR 6	18 800 000	1925
1926	---	1 440 ON NOV 4	387 ON MAR 21	23 800 000	1926
1927	---	2 450 ON JUL 18	823 ON DEC 31	44 200 000	1927
1928	---	1 450 ON JUL 23	527 ON FEB 6	27 100 000	1928
1929	---	900 ON MAR 28	418 ON SEP 15	20 000 000	1929
1930	---	885 ON MAY 28	284 ON NOV 2	14 600 000	1930
1931	---	447 ON DEC 3	274 ON JUN 28	11 800 000	1931
1932	---	888 ON MAY 10	288 ON SEP 25	13 800 000	1932
1933	---	1 350 ON APR 23	382 ON OCT 8	18 900 000	1933
1934	---	1 330 ON JUL 15	581 ON JAN 1	28 400 000	1934
1935	---	1 030 ON JUL 28	430 ON MAR 10	23 200 000	1935
1936	---	1 080 ON MAY 28	433 ON OCT 18	21 000 000	1936
1937	---	1 270 ON AUG 7	418 ON MAR 28	22 600 000	1937
1938	---	2 280 ON MAY 30	488 ON APR 3	28 500 000	1938
1939	---	848 ON FEB 20	422 ON OCT 19	17 200 000	1939
1940	---	588 ON FEB 11	317 ON SEP 7	14 300 000	1940
1941	---	2 180 ON NOV 6	348 ON MAR 28	26 300 000	1941
1942	---	1 250 ON JAN 2	507 ON AUG 28	23 300 000	1942
1943	---	2 380 ON JUL 19	530 ON JAN 8	33 000 000	1943
1944	---	1 930 ON JUL 17	620 ON OCT 29	31 400 000	1944
1945	---	1 780 ON MAY 8	578 ON OCT 27	28 800 000	1945
1946	---	1 380 ON MAY 17	588 ON SEP 7	27 000 000	1946
1947	---	2 040 ON JUL 2	587 ON OCT 11	31 100 000	1947
1948	---	1 720 ON MAY 19	552 ON OCT 13	26 000 000	1948
1949	---	900 ON NOV 20	487 ON SEP 3	20 900 000	1949
1950	---	2 780 ON JUN 19	711 ON APR 13	48 300 000	1950
1951	---	1 730 ON MAY 22	578 ON SEP 15	29 400 000	1951
1952	---	1 000 ON AUG 17	524 ON JUN 28	24 300 000	1952
1953	---	1 030 ON JUN 13	580 ON MAR 5	32 700 000	1953
1954	---	2 800 ON JUN 30 *	880 ON JAN 8	38 100 000	1954
1955	---	1 050 ON JUN 6	538 ON SEP 10	22 800 000	1955
1956	---	1 550 ON JUN 18	589 ON SEP 20	28 600 000	1956
1957	---	1 370 ON JUL 28	482 ON SEP 15	23 300 000	1957
1958	---	810 ON FEB 27	361 ON SEP 6	16 600 000	1958
1959	---	1 420 ON JUL 17	609 ON JAN 6	29 000 000	1959
1960	---	1 140 ON APR 29	544 ON NOV 6	25 500 000	1960
1961	---	827 ON JAN 6	323 ON AUG 26	16 500 000	1961
1962	---	2 110 ON SEP 2	588 ON MAR 13	32 700 000	1962
1963	---	1 480 ON JUL 8	718 ON SEP 29	30 700 000	1963
1964	---	2 520 ON OCT 19	667 ON JUN 14	37 000 000	1964
1965	---	1 880 ON NOV 8	782 ON SEP 7	40 100 000	1965
1966	---	2 410 ON MAY 23	788 ON AUG 24	43 800 000	1966
1967	---	943 ON JAN 2	562 ON OCT 8	24 800 000	1967
1968	---	1 880 ON AUG 1	524 ON MAY 31	38 400 000	1968
1969	---	1 780 ON JUL 2	900 ON MAY 29	42 700 000	1969
1970	---	2 130 ON JUN 17	788 ON AUG 20	44 800 000	1970
1971	---	2 000 ON DEC 10	498 ON SEP 21	38 400 000	1971
1972	---	1 870 ON MAY 4	807 ON JUL 29	33 400 000	1972
1973	---	1 480 ON NOV 13	280 ON JUL 3	25 800 000	1973
1974	---	2 780 ON JUL 1	871 ON NOV 12	48 300 000	1974
1975	---	1 810 ON JUL 14	847 ON OCT 28	33 100 000	1975
1976	---	1 080 ON APR 18	288 ON DEC 18	19 800 000	1976
1977	---	1 500 ON DEC 13	81.0 ON JUN 12 *	18 200 000	1977
1978	---	1 870 ON JUL 17	852 ON MAY 23	38 100 000	1978
1979	---	1 780 ON MAY 28	488 ON AUG 13	30 400 000	1979
1980	---	1 080 ON MAR 12	81.0 ON SEP 2	19 900 000	1980
1981	---	818 ON JAN 18	148 ON JUN 8	18 400 000	1981
1982	---	1 430 ON DEC 20	815 ON JAN 2	27 900 000	1982
1983	---	1 420 ON JAN 23	317 ON OCT 3	24 900 000	1983
1984	---	887 ON DEC 31	444 ON SEP 1	24 200 000	1984
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		28 400 000	MEAN

WINNIPEG RIVER BELOW FOURTH FALLS , SEVEN SISTERS - STATION NO. 05PF015

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1917	---	---	---	---	---	322	203	253	278	282	270	---	---	1917
1918	---	244	248	272	286	375	340	306	276	274	283	281	---	1918
1919	292	232	284	487	417	354	702	833	654	---	---	---	---	1919
MEAN	292	238	285	380	352	350	415	464	403	278	287	281	---	MEAN

LOCATION - LAT 50 07 15 N
LONG 98 00 40 W REGULATED

WINNIPEG RIVER, HEAD OF GRAND DU BONNET FALLS - STATION NO. 05PF044

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1911	---	---	---	---	---	---	---	---	---	750	641	546	---	1911
1912	529	428	---	---	---	---	---	---	---	---	---	---	---	1912
MEAN	529	428	---	---	---	---	---	---	---	750	641	546	---	MEAN

LOCATION - LAT 50 26 20 N
LONG 95 58 30 W REGULATED

WOODY RIVER AT BOWSMAN - STATION NO. 05LE002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO NOV IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	---	0.972	3.11	0.969	0.220	0.425	0.283	---	---	1915
1916	---	---	---	5.10	8.63	23.9	7.11	1.29	0.584	1.80	1.27	---	6.18	1916
1917	---	---	---	1.59	21.6	8.03	9.69	1.03	0.657	0.200	---	---	---	1917
1918	---	---	---	3.71	3.44	11.5	12.1	2.45	0.588	0.594	0.939	---	4.42	1918
1919	---	---	---	6.15	3.66	1.08	2.16	0.705	2.28	---	---	---	---	1919
MEAN	---	---	---	4.14	9.33	9.10	6.83	1.29	0.865	0.755	0.831	---	5.31	MEAN

LOCATION - LAT 52 13 00 N DRAINAGE AREA, 1 680 km²
LONG 101 13 00 W NATURAL FLOW

WOODY RIVER AT BOWSMAN - STATION NO. 05LE002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO NOV FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1915	---	---	---	---	1915
1916	---	38.5 ON JUN 11	0.227 ON SEP 8 *	130 000	1916
1917	---	43.2 ON MAY 9 *	---	---	1917
1918	---	31.4 ON JUL 3	0.227 ON SEP 26	93 200	1918
1919	---	11.89 ON APR 8	---	---	1919
				112 000	MEAN

8 - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WOODY RIVER NEAR BOWSMAN - STATION NO. 05LE004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	10.7	28.9	81.4	14.1	4.88	10.9	4.43	---	---	---	1954
1955	---	---	---	23.0	28.5	4.47	1.98	0.181	0.044	0.174	---	---	---	1955
1956	---	---	---	9.20	31.3	12.9	6.84	1.82	0.588	0.948	---	---	---	1956
1957	---	---	0.263	15.6	17.2	4.89	1.02	0.422	1.07	1.08	---	---	5.17	1957
1958	---	---	0.958	2.90	2.30	1.63	0.28	1.07	0.288	0.502	---	---	2.30	1958
1959	---	---	0.742	2.82	5.48	5.11	5.88	0.220R	2.82 R	1.92	---	---	3.08 R	1959
1960	---	---	0.130	14.2	14.5	11.0	2.88	1.20	0.182	0.033	---	---	5.45	1960
1961	---	---	0	0.877	1.43	0.888	0.086	0	0.023	0.024	---	---	0.388	1961
1962	---	---	0	3.13	5.78	0.887	0.117	0.017	0.732	1.82	---	---	1.55	1962
1963	---	---	0.187	8.18	5.13	5.86	0.872	0.281	0.188	0.088	---	---	2.55	1963
1964	---	---	0	2.80	8.70	1.33	0.884	2.03	8.31	4.08	---	---	3.40	1964
1965	---	---	0.335	10.5	15.4	26.0	5.80	2.04	2.40	4.39	---	---	8.45	1965
1966	---	---	0.835	18.1	15.0	15.3	15.5	5.43	4.17	1.98	---	---	8.52	1966
1967	---	---	0.873	3.40	38.7	14.0	1.82	1.03	0.330	0.284	---	---	7.54	1967
1968	---	---	0.783	3.47	2.08	4.80	3.84	10.5	3.87	0.822	---	---	3.74	1968
1969	---	---	0.782	14.8	8.24	3.05	3.58	1.85	0.491	5.84	---	---	4.52	1969
1970	---	---	0.340	10.5	24.5	10.4	10.5	3.20	0.315	2.45	---	---	7.86	1970
1971	---	---	0.513	28.2	10.1	7.83	1.53	0.592	0.088	2.83	---	---	6.40	1971
1972	---	---	0.881	27.2	28.3	4.49	3.81	0.818	0.280	0.487	---	---	9.47	1972
1973	---	---	2.20	4.00	5.17	18.0	7.04	1.28	0.820	1.17	---	---	5.05	1973
1974	---	---	0.888	23.7	40.1	11.3	1.83	1.27	2.81	2.93	---	---	10.8	1974
1975	---	---	0.415	14.1	17.8	15.0	5.30	2.31	4.47	5.90	---	---	8.12	1975
1976	---	---	0.488	15.0	2.87	13.8	7.43	0.884	0.188	0.095	---	---	5.04	1976
1977	---	---	0.183	5.07	3.33	1.84	1.74	4.81	8.32	8.34	---	---	4.00	1977
1978	---	---	0.508	13.8	8.42	2.84	2.81	0.905	2.10	3.59	---	---	4.48	1978
1979	---	---	0.388	20.1	32.8	22.7	3.07	0.143	0.050	0.510	---	---	9.75	1979
1980	---	---	0.022	8.02	1.78	0.390	2.82	8.17	8.18	8.28	---	---	4.04	1980
1981	---	---	0.808	9.20	8.84	1.82	3.86	4.86	0.438	8.20	---	---	4.88	1981
1982	---	---	0.202	4.80	8.85	8.09	18.1	4.89	1.12	4.80	---	---	8.11	1982
1983	---	---	0.482	24.8	27.3	13.2	23.7	4.82	4.75	4.20	---	---	12.8	1983
1984	---	---	7.88	38.8	38.8	23.2	3.15	0.788	0.897	2.83	---	---	14.3	1984
MEAN	---	---	0.721	12.8	15.8	10.3	5.88	2.21 R	2.28 R	2.88	---	---	8.87	MEAN

LOCATION - LAT 52 15 20 N LONG 101 08 15 W DRAINAGE AREA, 2 110 km² NATURAL FLOW

R - REVISED SINCE JAN 1980

WOODY RIVER NEAR BOWSMAN - STATION NO. 05LE004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	117 ON JUN 18	---	---	1954
1955	---	86.4 B ON APR 5	---	---	1955
1956	---	63.0 ON MAY 6	---	---	1956
1957	---	41.3 ON APR 25	0.198 ON AUG 13	110 000	1957
1958	---	24.0 ON JUL 7	0.0078 ON MAR 1	48 700	1958
1959	---	14.0 ON JUL 1	0 B ON MAR 1 *	65 200R	1959
1960	87.4 ON APR 15	58.0 ON APR 18	0.006 ON OCT 28	116 000	1960
1961	---	1.87 ON MAY 15	0 B ON MAR 1	7 740	1961
1962	---	19.8 B ON APR 20	0 B ON MAR 1	32 800	1962
1963	---	32.6 B ON APR 6	0 B ON MAR 1	53 900	1963
1964	---	17.0 ON MAY 15	0 B ON MAR 1	71 900	1964
1965	---	88.5 ON JUN 5	0.113 ON SEP 15	178 000	1965
1966	---	48.7 B ON APR 7	0.2938 ON MAR 1	201 000	1966
1967	---	74.8 B ON MAY 7	0 ON JUL 28	159 000	1967
1968	---	20.1 ON AUG 1	0.0408 ON MAR 1	78 200	1968
1969	---	81.5 B ON APR 13	0 ON AUG 26	95 700	1969
1970	---	45.3 ON MAY 24	0.042 ON SEP 18	162 000	1970
1971	---	87.7 ON APR 17	0 ON AUG 16	136 000	1971
1972	---	183 ON APR 23	0 ON SEP 23	201 000	1972
1973	45.8 AT 18:02 CST ON JUN 6	43.6 ON JUN 6	0 B ON MAR 1	107 000	1973
1974	---	140 B ON APR 21	0.493 ON AUG 11	221 000	1974
1975	88.8 AT 20:20 CST ON APR 22	81.2 ON APR 22	0.2818 ON APR 5	172 000	1975
1976	70.8 AT 08:00 CST ON APR 10	83.4 ON APR 10	0 ON SEP 30	107 000	1976
1977	14.4 AT 14:11 CST ON SEP 26	14.2 ON SEP 28	0 B ON MAR 1	84 800	1977
1978	58.8 AT 00:38 CST ON APR 18	80.4 ON APR 18	0.1908 ON MAR 12	94 480	1978
1979	128 AT 10:88 CST ON APR 26 *	113 ON APR 26	0 ON AUG 28	208 000	1979
1980	---	31.8 B ON APR 14	0 B ON MAR 1	88 400	1980
1981	18.8 AT 23:88 CST ON MAY 2	18.3 ON MAY 3	0 ON SEP 8	88 700	1981
1982	74.8 AT 02:88 CST ON JUL 18	87.1 ON JUL 18	0 B ON MAR 1	130 000	1982
1983	---	170 B ON APR 26 *	0.4358 ON MAR 1	271 000	1983
1984	78.0 AT 02:34 CST ON MAY 22	78.2 ON MAY 21	0 ON AUG 30	203 000	1984
				129 000R	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

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